

# ***STIC Search Report***

## ***EIC 1700***

**STIC Database Tracking Number: 166092**

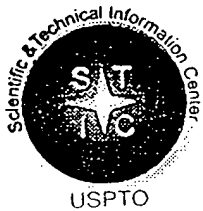
**TO: Eisa Elhilo**  
**Location: REM 9A60**  
**Art Unit : 1751**  
**September 29, 2005**

**Case Serial Number: 10/728954**

**From: Kathleen Fuller**  
**Location: EIC 1700**  
**REMSSEN 4B28**  
**Phone: 571/272-2505**  
**Kathleen.Fuller@uspto.gov**

### **Search Notes**

As you know most polymers are indexed by CA by the starting monomers and that is the case with the references attached. I marked some which have good dates and may be useful.



# STIC Search Results Feedback Form

**EIC17000**

Questions about the scope or the results of the search? Contact *the EIC searcher* or contact:

Kathleen Fuller, EIC 1700 Team Leader  
571/272-2505 REMSEN 4B28

## Voluntary Results Feedback Form

- I am an examiner in Workgroup:  Example: 1713
- Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature  
(journal articles, conference proceedings, new product announcements etc.)

- Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

=> FILE REG

FILE 'REGISTRY' ENTERED AT 17:40:45 ON 28 SEP 2005

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 27 SEP 2005 HIGHEST RN 864057-55-6

DICTIONARY FILE UPDATES: 27 SEP 2005 HIGHEST RN 864057-55-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

\*\*\*\*\*  
\*  
\* The CA roles and document type information have been removed from \*  
\* the IDE default display format and the ED field has been added, \*  
\* effective March 20, 2005. A new display format, IDERL, is now \*  
\* available and contains the CA role and document type information. \*  
\*  
\*\*\*\*\*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> FILE HCAPL

FILE 'HCAPLUS' ENTERED AT 17:40:50 ON 28 SEP 2005

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FILE COVERS 1907 - 28 Sep 2005 VOL 143 ISS 14

FILE LAST UPDATED: 27 Sep 2005 (20050927/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=&gt; D QUE

L2 26 SEA FILE=REGISTRY ABB=ON (106-50-3/BI OR 108-31-6/BI OR  
108-45-2/BI OR 108-46-3/BI OR 110-16-7/BI OR 123-30-8/BI OR  
124-43-6/BI OR 138757-67-2/BI OR 223104-80-1/BI OR 26062-79-3/B  
I OR 31900-57-9/BI OR 55302-96-0/BI OR 591-27-5/BI OR 68393-49-  
7/BI OR 698973-63-6/BI OR 7722-84-1/BI OR 79-10-7/BI OR  
79-41-4/BI OR 88-12-0/BI OR 9000-30-0/BI OR 9004-34-6/BI OR  
9004-62-0/BI OR 9015-06-9/BI OR 9016-00-6/BI OR 95-54-5/BI OR  
95-55-6/BI)

L3 10 SEA FILE=REGISTRY ABB=ON L2 AND PMS/CI

L4 152484 SEA FILE=REGISTRY ABB=ON (SI(L)C(L)O(L)H(L)N)/ELS(L)5/ELC.SUB

L5 17731 SEA FILE=REGISTRY ABB=ON L4 AND PMS/CI

L6 2 SEA FILE=REGISTRY ABB=ON L3 AND 1-4/SI

L7 8 SEA FILE=REGISTRY ABB=ON L3 NOT L6

L8 5 SEA FILE=REGISTRY ABB=ON L7 AND 1-4/N

L9 10695 SEA FILE=HCAPLUS ABB=ON L5

L10 155 SEA FILE=HCAPLUS ABB=ON L9(L) (HAIR OR KERAT?)

L11 20 SEA FILE=HCAPLUS ABB=ON L9(L) (HAIR OR KERAT?) (L)DYE?

L12 152 SEA FILE=HCAPLUS ABB=ON L10 AND COSMETIC?/SC,SX

L13 33 SEA FILE=HCAPLUS ABB=ON L12 AND DYE?

L14 33 SEA FILE=HCAPLUS ABB=ON L11 OR L13

L15 4630 SEA FILE=HCAPLUS ABB=ON L6/D

L16 4161 SEA FILE=HCAPLUS ABB=ON L8

L17 15 SEA FILE=HCAPLUS ABB=ON L15 AND L16

L18 10 SEA FILE=HCAPLUS ABB=ON L17 AND (HAIR OR KERAT?)

L19 15475 SEA FILE=HCAPLUS ABB=ON L6

L21 1016 SEA FILE=HCAPLUS ABB=ON L19 AND AMINO?(3A) (?SILICONE? OR  
?SILOXANE?)

L23 36 SEA FILE=HCAPLUS ABB=ON L21 AND (HAIR OR KERAT?) (3A)DYE?

L24 36 SEA FILE=HCAPLUS ABB=ON L23 AND COSMETIC?/SC,SX

L25 75 SEA FILE=HCAPLUS ABB=ON L14 OR L18 OR L24

L26 66 SEA FILE=HCAPLUS ABB=ON L16 AND L19

L27 449 SEA FILE=HCAPLUS ABB=ON L19(L) (HAIR OR KERAT?)

L28 19 SEA FILE=HCAPLUS ABB=ON L26 AND L27

L29 8 SEA FILE=HCAPLUS ABB=ON L21 AND L28

L30 77 SEA FILE=HCAPLUS ABB=ON L25 OR L29

L31 76 SEA FILE=HCAPLUS ABB=ON L30 AND COSMETIC?/SC

L32 70 SEA FILE=HCAPLUS ABB=ON L31 AND (HAIR OR KERAT?) (3A)DYE?

L33 50 SEA FILE=HCAPLUS ABB=ON L32 AND AMINO?(3A) (?SILICONE? OR  
?SILOXANE?)

L34 66 SEA FILE=HCAPLUS ABB=ON L14 OR L33

=> D L34 BIB ABS HITIND HITSTR 1-66

L34 ANSWER 1 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2005:822388 HCAPLUS

DN 143:216319

TI Stable hydrogen peroxide compositions for hair preparations

IN Asada, Takuji

PA Hoyu Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 19 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|------|-----------------|------|
|------------|------|------|-----------------|------|

|       |      |       |       |       |
|-------|------|-------|-------|-------|
| ----- | ---- | ----- | ----- | ----- |
|-------|------|-------|-------|-------|

PI JP 2005220048 A2 20050818 JP 2004-28328 20040204  
 PRAI JP 2004-28328 20040204  
 AB The compns., useful for **hair dyes**, bleaches, permanent wave agents, etc., contain H2O2, **amino-modified silicones** with average d.p. 3000-20,000, and H2O. A **hair dye** 2nd agent was formulated containing 16.6 weight% 35% aqueous H2O2 and 0.3 weight% Me3Si-terminated di-Me Me **aminopropyl polysiloxane** (d.p. 3500). Remaining of H2O2 after storage at 50° for 1 mo was 99.9 weight%.

IC ICM A61K007-09  
 ICS A61K007-13; A61K007-135

CC 62-3 (Essential Oils and Cosmetics)

ST hydrogen peroxide **amino silicone** compn hair;  
**hair dye** hydrogen peroxide **amino silicone**

IT **Polysiloxanes**, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (amino-containing; stable H2O2 compns. containing **amino-modified silicones**, cationic polymers, and nonionic surfactants for hair prepns.)

IT Surfactants  
 (nonionic; stable H2O2 compns. containing **amino-modified silicones**, cationic polymers, and nonionic surfactants for hair prepns.)

IT Hair preparations  
 (stable H2O2 compns. containing **amino-modified silicones**, cationic polymers, and nonionic surfactants for hair prepns.)

IT 7722-84-1, Hydrogen peroxide, biological studies 26062-79-3, Merquat 100 31566-31-1, Glycerin monostearate 92183-41-0, Celquat L 200 158465-66-8D, trimethylsilyl-terminated 473664-54-9, Salcare SC 96  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (stable H2O2 compns. containing **amino-modified silicones**, cationic polymers, and nonionic surfactants for hair prepns.)

IT 158465-66-8D, trimethylsilyl-terminated  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (stable H2O2 compns. containing **amino-modified silicones**, cationic polymers, and nonionic surfactants for hair prepns.)

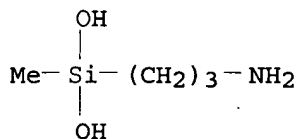
RN 158465-66-8 HCAPLUS

CN Silanediol, (3-aminopropyl)methyl-, polymer with dimethylsilanediol (9CI)  
 (CA INDEX NAME)

CM 1

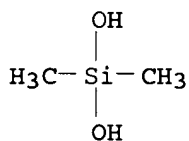
CRN 158465-65-7

CMF C4 H13 N O2 Si



CM 2

CRN 1066-42-8  
CMF C2 H8 O2 Si



L34 ANSWER 2 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2005:587112 HCAPLUS

DN 143:102793

TI Oxidative **hair dye** or **hair bleach**  
compositions containing **amino-modified silicones** and  
cationic polymers

IN Nishizawa, Eiichi; Matsuo, Takashi; Miyabe, Hajime

PA Kao Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 16 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE     |
|------|----------------|------|----------|-----------------|----------|
| PI   | JP 2005179222  | A2   | 20050707 | JP 2003-420291  | 20031218 |
| PRAI | JP 2003-420291 |      | 20031218 |                 |          |

AB The invention relates to an oxidative **hair dye** or **hair bleach** composition characterized by containing (1) an **amino**-modified highly-polymerized **silicone** with an average polymerization degree of 800-20,000, (2) a cationic polymer, (3) an oxidative **dye** intermediate or direct **dye** (bleach composition dose not contain 3), and (4) an oxidative agent, wherein the composition provides uniform **dyeing** (bleaching) property and moisture to hair. For example, a **hair dye** 1st agent containing an **amino-modified silicone** 5, dimethylallylammonium chloride-acrylic acid copolymer solution (Merquat 280) 2, dimethyldiallylammonium chloride-acrylamide copolymer solution (Merquat 550) 2, toluene-2,5-diamine solution 1, resorcin 0.4, m-aminophenol 0.2, and other ingredients q.s. to 100 % was prepared, and mixed with a 2nd agent containing H2O2 solution 16 and other ingredients to 100 % prior to the usage.

IC ICM A61K007-13

ICS A61K007-135

CC 62-3 (Essential Oils and Cosmetics)

ST oxidative **hair dye amino** modified  
**polysiloxane** cationic polymer; hair oxidative bleach **amino**  
modified **polysiloxane** cationic polymer

IT **Polysiloxanes**, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(**amino**-containing; oxidative **hair dye** or  
**hair-bleaching** compns. containing **amino-modified**  
**silicones** and cationic polymers)

IT Hair preparations

(bleaches; oxidative **hair dye** or **hair**  
-bleaching compns. containing **amino-modified silicones**  
and cationic polymers)

IT Polyelectrolytes

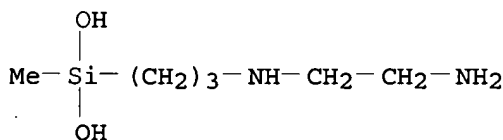
(cationic; oxidative **hair dye** or **hair**

- bleaching compns. containing amino-modified silicones and cationic polymers)
- IT Hair preparations  
(dyes, oxidative; oxidative hair dye or hair-bleaching compns. containing amino-modified silicones and cationic polymers)
- IT Surfactants  
(further components; oxidative hair dye or hair-bleaching compns. containing amino-modified silicones and cationic polymers)
- IT Alcohols, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(long-chain, further components; oxidative hair dye or hair-bleaching compns. containing amino-modified silicones and cationic polymers)
- IT 156623-21-1D, trimethylsilyl-terminated  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(assumed monomers; oxidative hair dye or hair-bleaching compns. containing amino-modified silicones and cationic polymers)
- IT 112-03-8, Stearyltrimethylammonium chloride 9004-95-9, Polyoxyethylene cetyl ether 9004-98-2, Polyoxyethylene oleyl ether 24938-91-8, Polyoxyethylene tridecyl ether 32128-65-7, Polyoxyethylene octyldodecyl ether 36653-82-4, Cetanol  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(further components; oxidative hair dye or hair-bleaching compns. containing amino-modified silicones and cationic polymers)
- IT 95-70-5, Toluene-2,5-diamine 108-46-3, Resorcin, biological studies 591-27-5, m-Aminophenol 7722-84-1, Hydrogen peroxide, biological studies 26062-79-3, (Merquat 100 26590-05-6, (Merquat 550 53633-54-8, Gafquat 734 53694-17-0, (Merquat 280 81859-24-7, UCARE Polymer JR 125  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(oxidative hair dye or hair-bleaching compns. containing amino-modified silicones and cationic polymers)
- IT 156623-21-1D, trimethylsilyl-terminated  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(assumed monomers; oxidative hair dye or hair-bleaching compns. containing amino-modified silicones and cationic polymers)
- RN 156623-21-1 HCAPLUS
- CN Silanediol, [3-[(2-aminoethyl)amino]propyl]methyl-, polymer with dimethylsilanediol (9CI) (CA INDEX NAME)

CM 1

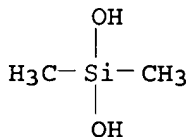
CRN 83145-66-8

CMF C6 H18 N2 O2 Si



CM 2

CRN 1066-42-8  
CMF C2 H8 O2 Si



L34 ANSWER 3 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2005:563462 HCAPLUS

DN 143:83168

TI Rinse-off compositions for colored hair containing a polyhydric alcohol and a cationic surfactant

IN Watanabe, Shunsuke

PA Kao Corporation, Japan

SO Eur. Pat. Appl., 13 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|------|---|------|----------|-----------------|----------|
| PI   | EP 1547574  | A1   | 20050629 | EP 2004-30692   | 20041223 |
|      | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU |      |          |                 |          |
|      | JP 2005187403   | A2   | 20050714 | JP 2003-431121  | 20031225 |
|      | US 2005142091   | A1   | 20050630 | US 2004-19307   | 20041223 |
| PRAI | JP 2003-431121  | A    | 20031225 |                 |          |

OS MARPAT 143:83168

AB A rinse-off type hair cosmetic composition is described containing (A) from 1 to 10 weight% of a higher alc. having from 12 to 28 carbon atoms, (B) a quaternary ammonium salt or a tertiary amine type compound or salt thereof, (C) from 15 to 70 weight% of a polyhydric alc., and (D) from 0.01 to 10 weight% of a dimethylpolysiloxane. The content ratio of the ingredient (A) to the ingredient (B) is from 1:1 to 10:1 in terms of molar ratio. As a method for preventing colored hair from fading, the hair cosmetic composition is used before or after shampooing the colored hair. The hair cosmetic composition can inhibit the bleeding of a colorant from colored hair upon shampooing, and is also excellent in the smoothness of the hair upon applying the composition and also upon rinsing it off. Thus, a hair conditioner for colored hair contained behenyl alc. 3.0, behenyltrimonium chloride 1.0, Polyox WSR N-60K 0.2, propylene glycol 40.0, dimethylpolysiloxane (DC 1501) 5.0, amino-modified silicone emulsion (SM 8704C) 0.5, tocopherol acetate 0.2, 2-ethylhexyl p-methoxycinnamate 0.1, 2-hydroxy-4-methoxybenzophenone 0.1, fragrance 0.1, sodium hydroxide sufficient to give pH 5, and water to 100%, resp.

IC ICM A61K007-06

ICS A61K007-075

CC 62-3 (Essential Oils and Cosmetics)

IT Polysiloxanes, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

((aminoethyl)amino]propyl hydroxy, di-Me;

rinse-off compns. for colored hair containing polyhydric alc. and cationic surfactant)



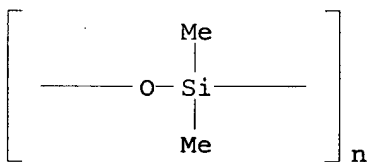
IT **Polysiloxanes**, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (amino-containing, SS 3588; rinse-off compns. for colored hair  
 containing polyhydric alc. and cationic surfactant)

IT **Hair preparations**  
 (dyes, prevention of fading of; rinse-off compns. for colored  
 hair containing polyhydric alc. and cationic surfactant)

IT 9016-00-6, X 21-7633  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (DC 1501, X 21-7633; rinse-off compns. for colored hair containing  
 polyhydric alc. and cationic surfactant)

IT 9016-00-6, X 21-7633  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (DC 1501, X 21-7633; rinse-off compns. for colored hair containing  
 polyhydric alc. and cationic surfactant)

RN 9016-00-6 HCAPLUS  
 CN Poly[oxy(dimethylsilylene)] (8CI, 9CI) (CA INDEX NAME)



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L34 ANSWER 4 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2005:471143 HCAPLUS

DN 143:12981

TI **Hair bleaching or dyeing** compositions containing  
 diamides

IN Nishizawa, Eiichi; Miyabe, Hajime

PA Kao Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 17 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE     |
|------|----------------|------|----------|-----------------|----------|
| PI   | JP 2005139154  | A2   | 20050602 | JP 2003-380282  | 20031110 |
| PRAI | JP 2003-380282 |      | 20031110 |                 |          |

OS MARPAT 143:12981

AB The compns. contain R1OR2NHCOR3CONHR2OR1 [I; R1 = (OH- or  
 alkoxy-substituted) C1-12 hydrocarbyl; R2 = C1-5 hydrocarbylene; R3 =  
 C1-22 hydrocarbylene], oxidizing agents, and cationic polymers. The  
 compns. show good hair conditioning and bleaching or dyeing effect and  
 stability. A **hair dye** was prepared from a 1st agent  
 containing I [R1 = (CH2)2OH, R2 = (CH2)2, (CH2)6CHMe(CH2)4CHMe(CH2)6] 1.0, I  
 [R1 = Me, R2 = (CH2)2, (CH2)6CHMe(CH2)4CHMe(CH2)6] 2.0, Merquat 280 2.0,  
 and Merquat 550 2.0 weight% and a 2nd agent containing H2O2.

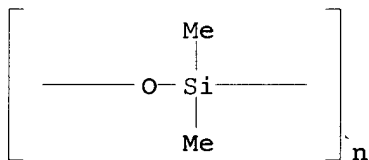
IC ICM A61K007-13

ICS A61K007-135

CC 62-3 (Essential Oils and Cosmetics)

ST **hair bleach dye** diamide cationic polymer; oxidizing  
 agent **hair bleach dye** diamide

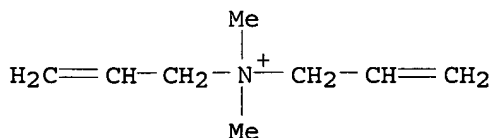
- IT Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(Me; hair bleaching or dyeing compns. containing diamides)
- IT Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
([(aminoethyl)amino]propyl hydroxy, di-Me;  
hair bleaching or dyeing compns. containing diamides)
- IT Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(amino-containing; hair bleaching or dyeing compns. containing diamides)
- IT Hair preparations  
(bleaches; hair bleaching or dyeing compns. containing diamides)
- IT Polyelectrolytes  
(cationic; hair bleaching or dyeing compns. containing diamides)
- IT Hair preparations  
(dyes; hair bleaching or dyeing compns. containing diamides)
- IT Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(hair bleaching or dyeing compns. containing diamides)
- IT 9016-00-6, Dimethylsilanediol homopolymer, sru 26062-79-3  
, Merquat 100 26590-05-6, Merquat 550 31900-57-9,  
Dimethylsilanediol homopolymer 53633-54-8, Gafquat 734 53694-17-0,  
Merquat 280 81859-24-7, Polymer JR 125 264599-30-6 301827-61-2  
301827-62-3 301827-65-6  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(hair bleaching or dyeing compns. containing diamides)
- IT 9016-00-6, Dimethylsilanediol homopolymer, sru 26062-79-3  
, Merquat 100 31900-57-9, Dimethylsilanediol homopolymer  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(hair bleaching or dyeing compns. containing diamides)
- RN 9016-00-6 HCAPLUS
- CN Poly[oxy(dimethylsilylene)] (8CI, 9CI) (CA INDEX NAME)



- RN 26062-79-3 HCAPLUS
- CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer  
(9CI) (CA INDEX NAME)

CM 1

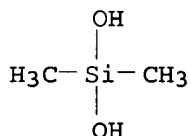
CRN 7398-69-8  
CMF C8 H16 N . Cl

● Cl<sup>-</sup>

RN 31900-57-9 HCAPLUS  
 CN Silanediol, dimethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 1066-42-8  
 CMF C2 H8 O2 Si



L34 ANSWER 5 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2005:471135 HCAPLUS

DN 142:487140

TI Oxidative hair dye compositions with good emulsion stability

IN Hashimoto, Katsuo; Yamashita, Takahiro; Shibata, Kazuya

PA Shiseido Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 22 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE     |
|------|----------------|------|----------|-----------------|----------|
| PI   | JP 2005139133  | A2   | 20050602 | JP 2003-378561  | 20031107 |
| PRAI | JP 2003-378561 |      | 20031107 |                 |          |

AB The comps. comprise 1st agent emulsions containing (A) cationic surfactants, (B) nonionic surfactants, higher alcs., H<sub>2</sub>O, alkalies, and oxidative dyes and 2nd agents containing oxidizing agents, wherein total content of A and B in the comps. is 0.05-5.0 weight% and A/B weight ratio is 1-10. The comps. give good hand feel to the hair. A 1st agent for a cream-type hair dye was formulated containing behenyltrimethylammonium chloride 3.0, polyoxyethylene stearyl ether 1.0, di-Me aminopropylmethyl silicone emulsion 2.0, and cetostearyl alc. 9.0 weight%.

IC ICM A61K007-13

CC 62-3 (Essential Oils and Cosmetics)

ST oxidative hair dye emulsion cationic nonionic surfactant

IT Alcohols, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(C16-18; oxidative hair dyes with good emulsion stability)

IT Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
([aminoethyl]amino]propyl Me, di-Me, SF 8452C;  
oxidative hair dyes with good emulsion stability)

IT Surfactants  
(cationic; oxidative hair dyes with good emulsion stability)

IT Silicone rubber, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(di-Me, aminopropylmethyl; oxidative hair dyes with good emulsion stability)

IT Hair preparations  
(dyes, oxidative; oxidative hair dyes with good emulsion stability)

IT Castor oil  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(hydrogenated, ethoxylated; oxidative hair dyes with good emulsion stability)

IT Alcohols, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(long-chain; oxidative hair dyes with good emulsion stability)

IT Surfactants  
(nonionic; oxidative hair dyes with good emulsion stability)

IT Human  
(oxidative hair dyes with good emulsion stability)

IT 107-64-2, Distearyltrimethylammonium chloride 112-03-8, Stearyltrimethylammonium chloride 112-92-5, Stearyl alcohol 9004-95-9, Polyoxyethylene cetyl ether 9004-98-2, Polyoxyethylene oleyl ether 9005-00-9, Polyoxyethylene stearyl ether 17301-53-0, Behenyltrimethylammonium chloride 36653-82-4, Cetyl alcohol 81646-13-1, Behenyltrimethylammonium methyl sulfate 158465-66-8D, Aminopropylmethylsilanediol-dimethylsilanediol copolymer, trimethylsilyl-terminated  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(oxidative hair dyes with good emulsion stability)

IT 158465-66-8, Aminopropylmethylsilanediol-dimethylsilanediol copolymer  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(rubber; oxidative hair dyes with good emulsion stability)

IT 158465-66-8D, Aminopropylmethylsilanediol-dimethylsilanediol copolymer, trimethylsilyl-terminated  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(oxidative hair dyes with good emulsion stability)

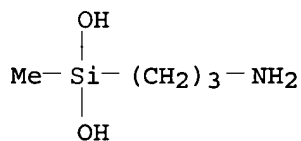
RN 158465-66-8 HCAPLUS

CN Silanediol, (3-aminopropyl)methyl-, polymer with dimethylsilanediol (9CI)  
(CA INDEX NAME)

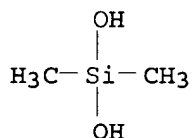
CM 1

CRN 158465-65-7

CMF C4 H13 N O2 Si



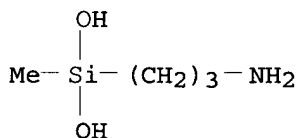
CM 2

CRN 1066-42-8  
CMF C2 H8 O2 SiIT 158465-66-8, Aminopropylmethyilsilanediol-dimethylsilanediol  
copolymerRL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(rubber; oxidative hair dyes with good emulsion  
stability)

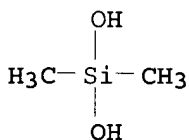
RN 158465-66-8 HCAPLUS

CN Silanediol, (3-aminopropyl)methyl-, polymer with dimethylsilanediol (9CI)  
(CA INDEX NAME)

CM 1

CRN 158465-65-7  
CMF C4 H13 N O2 Si

CM 2

CRN 1066-42-8  
CMF C2 H8 O2 Si

L34 ANSWER 6 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

KATHLEEN FULLER EIC1700 REMSEN 4B28 571/272-2505

AN 2005:302009 HCAPLUS  
 DN 142:360325  
 TI Hair cosmetic compositions containing silicones and cationic cellulose for  
**hair dyes** or bleaches  
 IN Hata, Masakatsu; Fuma, Yoshito; Yano, Hiroyuki  
 PA Hoyu Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 17 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE     |
|------|----------------|------|----------|-----------------|----------|
| PI   | JP 2005089307  | A2   | 20050407 | JP 2003-320732  | 20030912 |
| PRAI | JP 2003-320732 |      | 20030912 |                 |          |

AB The compns., which improve feel of the hair, contain (a)  $\geq 2$  silicones chosen from cyclic **silicones**, (high-d.p.) **amino-modified silicones**, and high-d.p. Me polysiloxanes and (b) hydroxyethyl cellulose dimethyldiallylammonium chloride (I). A **hair dye** 1st agent was formulated containing **decamethylcyclopentasiloxane** 1.5, **aminoethylaminopropylsiloxane-dimethylsiloxane** copolymer 1.5, high-d.p. Me polysiloxane 0.2, I 0.5, and isostearyl isostearate 2.0 weight%.

IC ICM A61K007-13  
 ICS A61K007-06; A61K007-135

CC 62-3 (Essential Oils and **Cosmetics**)

ST **hair cosmetic dye** silicone cationic cellulose;  
 hydroxyethyl cellulose ammonium hair cosmetic silicone

IT Polysiloxanes, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (Me, high-d.p.; hair cosmetic compns. containing silicones and cationic cellulose for **hair dyes** or bleaches)

IT **Polysiloxanes**, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 ([**(aminoethyl)amino**]propyl, di-Me; hair cosmetic compns. containing silicones and cationic cellulose for **hair dyes** or bleaches)

IT Hair preparations  
 (bleaches; hair cosmetic compns. containing silicones and cationic cellulose for **hair dyes** or bleaches)

IT Fatty acids, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (branched; hair cosmetic compns. containing silicones and cationic cellulose for **hair dyes** or bleaches)

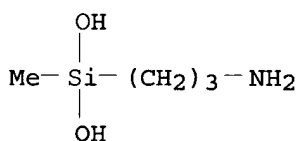
IT **Hair preparations**  
 (**dyes**; hair cosmetic compns. containing silicones and cationic cellulose for **hair dyes** or bleaches)

IT Human  
 (hair cosmetic compns. containing silicones and cationic cellulose for **hair dyes** or bleaches)

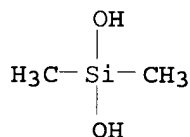
IT Cyclosiloxanes  
 Polysiloxanes, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hair cosmetic compns. containing silicones and cationic cellulose for **hair dyes** or bleaches)

IT 541-02-6, Decamethylcyclopentasiloxane 41669-30-1, Isostearyl isostearate 111774-28-8 **158465-66-8**,  
 Aminopropylmethylsilanediol-dimethylsilanediol copolymer  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (**hair cosmetic compns.** containing silicones and cationic

cellulose for hair dyes or bleaches)  
 IT 158465-66-8, Aminopropylmethyilsilanediol-dimethylsilanediol  
 copolymer  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hair cosmetic compns. containing silicones and cationic  
 cellulose for hair dyes or bleaches)  
 RN 158465-66-8 HCAPLUS  
 CN Silanediol, (3-aminopropyl)methyl-, polymer with dimethylsilanediol (9CI)  
 (CA INDEX NAME)  
 CM 1  
 CRN 158465-65-7  
 CMF C4 H13 N O2 Si



CM 2  
 CRN 1066-42-8  
 CMF C2 H8 O2 Si



L34 ANSWER 7 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2005:258782 HCAPLUS

DN 142:322309

TI Temporary hair colorant compositions containing amine oxide polymers

IN Kawaguchi, Shigeoki; Hiwata, Tomoaki

PA Mitsubishi Chemical Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 22 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE     |
|------|----------------|------|----------|-----------------|----------|
| PI   | JP 2005075737  | A2   | 20050324 | JP 2003-305018  | 20030828 |
| PRAI | JP 2003-305018 |      | 20030828 |                 |          |

AB The compns. contain amine oxide group-containing polymers with weight-average mol. weight 5000-1,000,000, pigments, and hydrophilic solvents. The compns. show good water and abrasion resistance, removability by detergents, and smooth feel. A hair colorant containing oxidized N,N-dimethylaminoethyl methacrylate-Bu methacrylate-2-ethylhexyl methacrylate-stearyl methacrylate copolymer, carbon black, and EtOH was prepared

IC ICM A61K007-13

CC 62-3 (Essential Oils and Cosmetics)

IT Hair preparations  
(dyes; temporary hair colorant compns. containing amine oxide polymers, pigments, and hydrophilic solvents)

IT 848337-94-0DP, Butyl methacrylate-N,N-dimethylaminoethyl methacrylate-2-ethylhexyl methacrylate-stearyl methacrylate copolymer, oxidized 848337-95-1DP, N,N-Dimethylaminoethyl methacrylate-2-ethylhexyl methacrylate-isobutyl methacrylate-lauryl methacrylate copolymer, oxidized 848337-96-2DP, Butyl methacrylate-N,N-dimethylaminopropylmethacrylamide-2-ethylhexyl methacrylate-lauryl methacrylate-Silaplane FM 0721 graft copolymer, oxidized 848337-97-3DP, tert-Butyl methacrylate-N,N-dimethylaminoethyl methacrylate-lauryl methacrylate-stearyl methacrylate copolymer, oxidized 848337-98-4DP, N,N-Dimethylaminoethyl methacrylate-isobutyl acrylate-lauryl methacrylate copolymer, oxidized 848337-99-5DP, N,N-Dimethylaminoethyl methacrylate-2-ethylhexyl methacrylate-Light Ester FM 108 copolymer, oxidized

RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(temporary hair colorant compns. containing amine oxide polymers, pigments, and hydrophilic solvents)

IT 848337-96-2DP, Butyl methacrylate-N,N-dimethylaminopropylmethacrylamide-2-ethylhexyl methacrylate-lauryl methacrylate-Silaplane FM 0721 graft copolymer, oxidized

RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(temporary hair colorant compns. containing amine oxide polymers, pigments, and hydrophilic solvents)

RN 848337-96-2 HCAPLUS

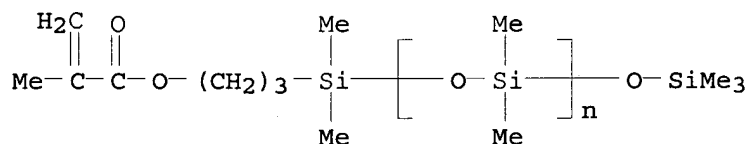
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with N-[3-(dimethylamino)propyl]-2-methyl-2-propenamide,  $\alpha$ -[dimethyl[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]silyl]- $\omega$ -[(trimethylsilyl)oxy]poly[oxy(dimethylsilylene)], dodecyl 2-methyl-2-propenoate and 2-ethylhexyl 2-methyl-2-propenoate, graft (9CI)  
(CA INDEX NAME)

CM 1

CRN 123109-42-2

CMF (C2 H6 O Si)<sub>n</sub> C12 H26 O3 Si2

CCI PMS

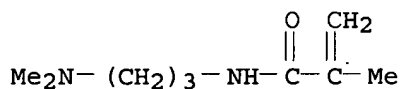


CM 2

CRN 5205-93-6

CMF C9 H18 N2 O

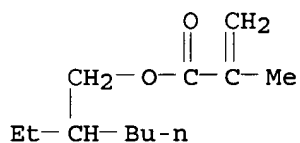




CM 3

CRN 688-84-6

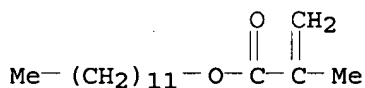
CMF C12 H22 O2



CM 4

CRN 142-90-5

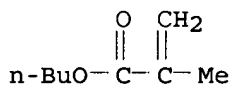
CMF C16 H30 O2



CM 5

CRN 97-88-1

CMF C8 H14 O2



L34 ANSWER 8 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2005:181285 HCAPLUS

DN 142:284770

TI Hair preparations containing amphipathic amide lipids and  
**organopolysiloxanes** having **amino**-substituted  
**polysiloxane** and polyoxyalkylene chains

IN Ishino, Yuji; Morita, Koji; Usunami, Fumiko

PA Kao Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 25 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

PI JP 2005053823 A2 20050303 JP 2003-285443 20030801  
 PRAI JP 2003-285443 20030801  
 OS MARPAT 142:284770  
 AB The hair prepns., which prevent and repair hair damage due to heat of dryers, permanent wave prepns., **hair dyes**, **hair bleaches**, etc., and maintain softness and smoothness of hair, contain (a) amphipathic amide lipids (Markush structures of 4 types are given), (b) **organopolysiloxanes** having **amino**-substituted **polysiloxane** and polyoxyalkylene chains, and optional (c) quaternary ammonium salts or tertiary amines (Markush structures are also given). Thus, a hair conditioner was formulated containing  $\text{MeO}(\text{CH}_2)_3\text{NHCO}(\text{CH}_2)_6\text{CHMe}(\text{CH}_2)_4\text{CHMe}(\text{CH}_2)_6\text{CONH}(\text{CH})_3\text{OMe}$ ,  $\text{Me}_2\text{CHCH}_2\text{O}(\text{C}_2\text{H}_4\text{O})_{54}[\text{CH}_2\text{CHMeCH}_2(\text{SiMe}_2\text{O})_{48}[\text{SiMe}[(\text{CH}_2)_3\text{NHCH}_2\text{CH}_2\text{NH}_2]\text{O}]_2\text{SiMe}_2\text{CH}_2\text{CHMeCH}_2\text{O}(\text{C}_2\text{H}_4\text{O})_{54}]_6\text{CH}_2\text{CHMe}_2$ , and stearyltrimethylammonium chloride.

IC ICM A61K007-06  
 ICS A61K007-00; A61K007-11

CC 62-3 (Essential Oils and Cosmetics)

ST hair conditioner amphipathic amide lipid aminoalkylpolysiloxane polyoxyalkylene; ceramide **amino** contg **polysiloxane** polyoxyalkylene hair conditioner

IT **Polysiloxanes**, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (**amino**-containing, polyoxyalkylene-; hair conditioners containing amphipathic amide lipids and **organopolysiloxanes** having **amino**-substituted **polysiloxane** and polyoxyalkylene chains)

IT Polyoxyalkylenes, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (**aminoalkyl siloxane**-; hair conditioners containing amphipathic amide lipids and **organopolysiloxanes** having **amino**-substituted **polysiloxane** and polyoxyalkylene chains)

IT **Polysiloxanes**, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (**aminoalkyl**, polyoxyalkylene-; hair conditioners containing amphipathic amide lipids and **organopolysiloxanes** having **amino**-substituted **polysiloxane** and polyoxyalkylene chains)

IT Hair preparations  
 (conditioners, styling; hair conditioners containing amphipathic amide lipids and **organopolysiloxanes** having **amino**-substituted **polysiloxane** and polyoxyalkylene chains)

IT Hair preparations  
 (conditioners; hair conditioners containing amphipathic amide lipids and **organopolysiloxanes** having **amino**-substituted **polysiloxane** and polyoxyalkylene chains)

IT Human  
 (hair conditioners containing amphipathic amide lipids and **organopolysiloxanes** having **amino**-substituted **polysiloxane** and polyoxyalkylene chains)

IT Amides, biological studies  
 Ceramides  
 Lipids, biological studies  
 Quaternary ammonium compounds, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hair conditioners containing amphipathic amide lipids and **organopolysiloxanes** having **amino**-substituted **polysiloxane** and polyoxyalkylene chains)

IT **Polysiloxanes**, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(polyoxyalkylene-, block; hair conditioners containing amphipathic amide lipids and **organopolysiloxanes** having **amino**-substituted **polysiloxane** and polyoxyalkylene chains)

IT Polysiloxanes, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (polyoxyalkylene-; hair conditioners containing amphipathic amide lipids and **organopolysiloxanes** having **amino**-substituted **polysiloxane** and polyoxyalkylene chains)

IT Polyoxyalkylenes, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (polysiloxane-, block; hair conditioners containing amphipathic amide lipids and **organopolysiloxanes** having **amino**-substituted **polysiloxane** and polyoxyalkylene chains)

IT Polyoxyalkylenes, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (polysiloxane-; hair conditioners containing amphipathic amide lipids and **organopolysiloxanes** having **amino**-substituted **polysiloxane** and polyoxyalkylene chains)

IT Amines, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (tertiary; hair conditioners containing amphipathic amide lipids and **organopolysiloxanes** having **amino**-substituted **polysiloxane** and polyoxyalkylene chains)

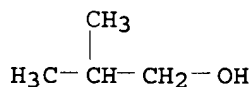
IT 34435-05-7 110483-07-3 288072-63-9 301827-63-4 **636596-93-5**  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hair conditioners containing amphipathic amide lipids and **organopolysiloxanes** having **amino**-substituted **polysiloxane** and polyoxyalkylene chains)

IT **636596-93-5**  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hair conditioners containing amphipathic amide lipids and **organopolysiloxanes** having **amino**-substituted **polysiloxane** and polyoxyalkylene chains)

RN 636596-93-5 HCAPLUS  
 CN Silanediol, [3-[(2-aminoethyl)amino]propyl]methyl-, polymer with dimethylsilanediol and oxirane, 2-methylpropyl ether, block (9CI) (CA INDEX NAME)

CM 1

CRN 78-83-1  
 CMF C4 H10 O

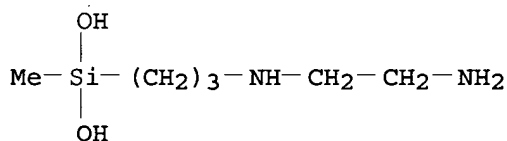


CM 2

CRN 636596-92-4  
 CMF (C6 H18 N2 O2 Si . C2 H8 O2 Si . C2 H4 O)x  
 CCI PMS

CM 3

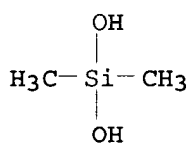
CRN 83145-66-8  
 CMF C6 H18 N2 O2 Si



CM 4

CRN 1066-42-8

CMF C2 H8 O2 Si



CM 5

CRN 75-21-8

CMF C2 H4 O



L34 ANSWER 9 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2005:97979 HCAPLUS

DN 142:204145

TI Direct hair dye compositions containing polymers having amine oxide groups

IN Hiwata, Tomoaki; Saito, Yukio

PA Mitsubishi Chemical Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE     |
|------|----------------|------|----------|-----------------|----------|
|      | -----          | ---- | -----    | -----           | -----    |
| PI   | JP 2005029509  | A2   | 20050203 | JP 2003-196539  | 20030714 |
| PRAI | JP 2003-196539 |      | 20030714 |                 |          |

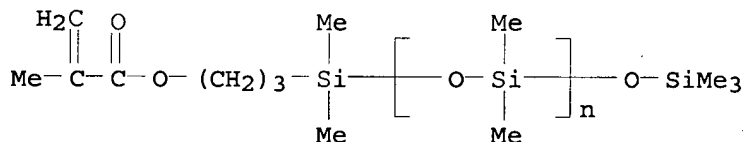
AB The comps., which show uniform hair dyeing, good durability, and hair-conditioning effect, contain direct dyes and 0.05-10 weight% polymers of Mw 5000-1,000,000 containing repeating units derived from amine oxide group-containing ethylenically unsatd. monomers. A hair dye was formulated containing 3.3 weight% oxidized N,N-dimethylaminoethyl methacrylate-lauryl methacrylate copolymer (30 weight% solution).

IC ICM A61K007-13

ICS C08F008-06; C08F020-36; D06P003-04; D06P003-06

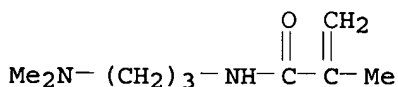
CC 62-3 (Essential Oils and Cosmetics)

ST direct hair **dye** amine oxide polymer  
 IT Polysiloxanes, biological studies  
 RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (acrylic, graft; direct hair **dye** compns. containing polymers having amine oxide groups)  
 IT Human  
 (direct hair **dye** compns. containing polymers having amine oxide groups)  
 IT Hair preparations  
 (**dyes**; direct hair **dye** compns. containing polymers having amine oxide groups)  
 IT 26246-82-2DP, N,N-Dimethylaminoethyl methacrylate-lauryl methacrylate copolymer, oxidized 835914-98-2DP, oxidized **835914-99-3DP**, oxidized  
 RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (direct **hair dye** compns. containing polymers having amine oxide groups)  
 IT **835914-99-3DP**, oxidized  
 RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (direct **hair dye** compns. containing polymers having amine oxide groups)  
 RN 835914-99-3 HCAPLUS  
 CN 2-Propenamide, N-[3-(dimethylamino)propyl]-2-methyl-, polymer with  $\alpha$ -[dimethyl[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]silyl]- $\omega$ -[(trimethylsilyl)oxy]poly[oxy(dimethylsilylene)], graft (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 123109-42-2  
 CMF (C2 H6 O Si)<sub>n</sub> C12 H26 O3 Si2  
 CCI PMS



CM 2

CRN 5205-93-6  
 CMF C9 H18 N2 O



L34 ANSWER 10 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN  
 AN 2005:96063 HCAPLUS  
 DN 142:204143

TI Oxidative hair **dye** compositions containing polymers having amine oxide groups

IN Hiwata, Tomoaki; Saito, Yukio

PA Mitsubishi Chemical Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 16 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE     |
|------|----------------|------|----------|-----------------|----------|
| PI   | JP 2005029508  | A2   | 20050203 | JP 2003-196538  | 20030714 |
| PRAI | JP 2003-196538 |      | 20030714 |                 |          |

AB The compns., which improves luster and smoothness of the hair, contain oxidative **dyes** and 0.05-10 weight% polymers of Mw 5000-1,000,000 containing repeating units derived from amine oxide group-containing ethylenically unsatd. monomers. A hair **dye** agent was formulated containing 3.3 weight% oxidized N,N-dimethylaminoethyl methacrylate-lauryl methacrylate copolymer (30 weight% solution).

IC ICM A61K007-13

CC 62-3 (Essential Oils and Cosmetics)

ST oxidative hair **dye** amine oxide polymer

IT Polysiloxanes, biological studies

RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)

(acrylic, graft; oxidative hair **dye** compns. containing polymers having amine oxide groups)

IT Bromates

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(alkali metal salts, oxidizing agents; oxidative hair **dye** compns. containing polymers having amine oxide groups)

IT Hair preparations

(**dyes**, oxidative; oxidative hair **dye** compns. containing polymers having amine oxide groups)

IT Human

(oxidative hair **dye** compns. containing polymers having amine oxide groups)

IT Peroxy acids

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(salts, oxidizing agents; oxidative hair **dye** compns. containing polymers having amine oxide groups)

IT 95-55-6, o-Aminophenol 106-50-3, p-Phenylenediamine, biological studies

123-30-8, p-Aminophenol 5307-14-2, Nitro-p-phenylenediamine

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(**dye** intermediate; oxidative hair **dye** compns. containing polymers having amine oxide groups)

IT 26246-82-2DP, N,N-Dimethylaminoethyl methacrylate-lauryl methacrylate copolymer, oxidized 835914-98-2DP, oxidized 835914-99-3DP, oxidized

RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)

(oxidative hair **dye** compns. containing polymers having amine oxide groups)

IT 124-43-6 7722-84-1, Hydrogen peroxide, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(oxidizing agent; oxidative hair **dye** compns. containing polymers having amine oxide groups)

IT 835914-99-3DP, oxidized

RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)

(oxidative **hair dye** compns. containing polymers having amine oxide groups)

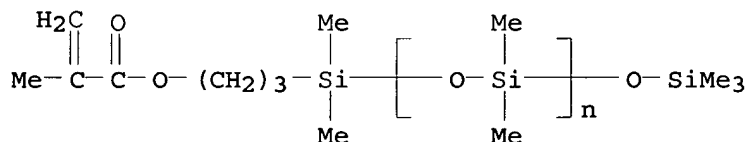
RN 835914-99-3 HCAPLUS  
 CN 2-Propenamide, N-[3-(dimethylamino)propyl]-2-methyl-, polymer with  $\alpha$ -[dimethyl[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]silyl]- $\omega$ -[(trimethylsilyl)oxy]poly[oxy(dimethylsilylene)], graft (9CI) (CA INDEX NAME)

CM 1

CRN 123109-42-2

CMF (C2 H6 O Si)<sub>n</sub> C12 H26 O3 Si2

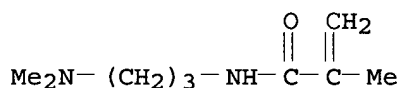
CCI PMS



CM 2

CRN 5205-93-6

CMF C9 H18 N2 O



L34 ANSWER 11 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2005:75479 HCAPLUS

DN 142:140766

TI Emulsion-type oxidative **hair dye** or bleach first agent compositions

IN Nishizawa, Eiichi; Matsuo, Takashi; Miyabe, Hajime

PA Kao Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 13 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

|      | PATENT NO.        | KIND | DATE     | APPLICATION NO. | DATE     |
|------|-------------------|------|----------|-----------------|----------|
| PI   | JP 2005023026     | A2   | 20050127 | JP 2003-190837  | 20030703 |
| PRAI | JP 2003-190837    |      | 20030703 |                 |          |
| OS   | MARPAT 142:140766 |      |          |                 |          |

AB The compns., showing pH 8-12 and used by mixing with oxidant compns., contain (A) **amino-modified silicones**, (B) **silicones** with number-average d.p.  $\geq 1000$ , (C) R1R2R3R4N+A- [R1, R2 = C8-24 (hydroxy)alkyl; R3, R4 = C1-3 (hydroxy)alkyl; A = halo, Me sulfate, Et sulfate], (D) higher alcs., (E) alkalies, optional (F) oxidative dye intermediates or direct dyes, and (G) H2O. The compns. show good **hair-conditioning** and **-dyeing** or **-bleaching** effect and emulsion stability. An oxidative dye 1st agent was formulated

containing SM 8704C (amodimethicone) 1.0, di-Me polysiloxane (number-average d.p. 2700) 1.5, behenyl alc. 1.0, octyldodecanol 1.0, and bis(C12-18 alkyl)dimethylammonium chloride solution 0.5 weight%.

IC ICM A61K007-13

CC 62-3 (Essential Oils and Cosmetics)

ST oxidative hair dye bleach silicone ammonium;  
amino silicone oxidative hair dye  
bleach; quaternary ammonium oxidative hair dye bleach

IT Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
([(aminoethyl)amino]propyl hydroxy, di-Me, SM 8704C; oxidative hair dye or bleach first agents containing silicones, quaternary ammonium salts, and higher alcs.)

IT Hair preparations  
(bleaches; oxidative hair dye or bleach first agents containing silicones, quaternary ammonium salts, and higher alcs.)

IT Quaternary ammonium compounds, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(di-C12-18-alkyldimethyl, chlorides; oxidative hair dye or bleach first agents containing silicones, quaternary ammonium salts, and higher alcs.)

IT Hair preparations  
(dyes, oxidative; oxidative hair dye or bleach first agents containing silicones, quaternary ammonium salts, and higher alcs.)

IT Alcohols, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(long-chain; oxidative hair dye or bleach first agents containing silicones, quaternary ammonium salts, and higher alcs.)

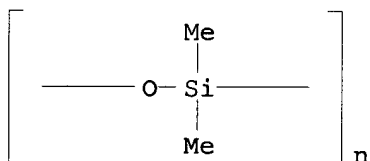
IT Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(oxidative hair dye or bleach first agents containing silicones, quaternary ammonium salts, and higher alcs.)

IT 661-19-8, Behenyl alcohol 9016-00-6, Dimethylsilanediol homopolymer, sru 31900-57-9, Dimethylsilanediol homopolymer 34513-50-3, Octyldodecanol  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(oxidative hair dye or bleach first agents containing silicones, quaternary ammonium salts, and higher alcs.)

IT 9016-00-6, Dimethylsilanediol homopolymer, sru 31900-57-9, Dimethylsilanediol homopolymer  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(oxidative hair dye or bleach first agents containing silicones, quaternary ammonium salts, and higher alcs.)

RN 9016-00-6 HCAPLUS

CN Poly[oxy(dimethylsilylene)] (8CI, 9CI) (CA INDEX NAME)



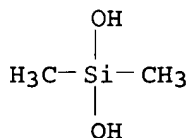
RN 31900-57-9 HCAPLUS

CN Silanediol, dimethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1



CRN 1066-42-8  
CMF C2 H8 O2 Si



L34 ANSWER 12 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2005:75477 HCAPLUS

DN 142:140764

TI Oxidative **hair dyeing** or bleaching compositions and their application method

IN Nishizawa, Eiichi; Miyabe, Hajime; Matsuo, Takashi

PA Kao Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE     |
|------|----------------|------|----------|-----------------|----------|
| PI   | JP 2005023024  | A2   | 20050127 | JP 2003-190835  | 20030703 |
| PRAI | JP 2003-190835 |      | 20030703 |                 |          |

AB The compns. contain monoethanolamine or hydroxyethylammonium ion, (bi)carbonate ion, **amino-modified silicones** or Me polysiloxanes, cationic polymers, oxidizing agents, and optional oxidative dye intermediates or direct dyes. The compns. show **hair** -conditioning effect, uniform **dyeing** or bleaching, and fastness to shampooing. A **hair dye** consisted of a 1st agent containing monoethanolamine 6.0, K<sub>2</sub>CO<sub>3</sub> 0.5, Merquat 100 1.0, and SM 8704C (amodimethicone) 1.0 weight% and a 2nd agent containing H<sub>2</sub>O<sub>2</sub>.

IC ICM A61K007-13

ICS A61K007-135

CC 62-3 (Essential Oils and Cosmetics)

ST oxidative **hair dye** bleach ethanolamine carbonate;

**amino silicone** oxidative **hair dye**

bleach; cationic polymer oxidative **hair dye** bleach;

methyl polysiloxane oxidative **hair dye** bleach

IT Alcohols, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(C16-18; oxidative **hair dyes** or bleaches containing ethanolamines, carbonate, silicones, and cationic polymers)

IT **Polysiloxanes**, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

([(**aminoethyl**)**amino**]propyl hydroxy, di-Me, SM

8704C; oxidative **hair dyes** or bleaches containing

ethanolamines, carbonate, silicones, and cationic polymers)

IT Hair preparations

(bleaches; oxidative **hair dyes** or bleaches containing

ethanolamines, carbonate, silicones, and cationic polymers)

IT Hair preparations

(**dyes**, oxidative; oxidative **hair dyes** or

bleaches containing ethanolamines, carbonate, silicones, and cationic polymers)

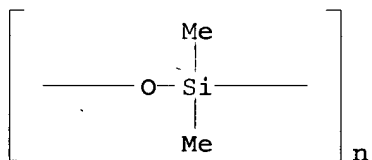
IT Alcohols, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (long-chain; oxidative **hair dyes** or bleaches containing  
 ethanolamines, carbonate, silicones, and cationic polymers)

IT Bicarbonates  
 Carbonates, biological studies  
 Polysiloxanes, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (oxidative **hair dyes** or bleaches containing  
 ethanolamines, carbonate, silicones, and cationic polymers)

IT 141-43-5, Monoethanolamine, biological studies 584-08-7, Potassium  
 carbonate 1066-33-7, Ammonium hydrogen carbonate 9016-00-6,  
 Dimethylsilanediol homopolymer, sru 26062-79-3, Merquat 100  
 26590-05-6, Merquat 550 31900-57-9, Dimethylsilanediol  
 homopolymer 34513-50-3, Octyldodecanol 53694-17-0, Merquat 280  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (oxidative **hair dyes** or bleaches containing  
 ethanolamines, carbonate, silicones, and cationic polymers)

IT 9016-00-6, Dimethylsilanediol homopolymer, sru 26062-79-3  
 , Merquat 100 31900-57-9, Dimethylsilanediol homopolymer  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (oxidative **hair dyes** or bleaches containing  
 ethanolamines, carbonate, silicones, and cationic polymers)

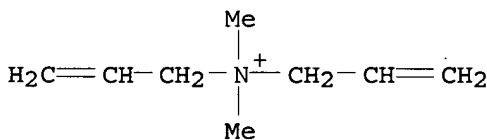
RN 9016-00-6 HCAPLUS  
 CN Poly[oxy(dimethylsilylene)] (8CI, 9CI) (CA INDEX NAME)



RN 26062-79-3 HCAPLUS  
 CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer  
 (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8  
 CMF C8 H16 N . Cl

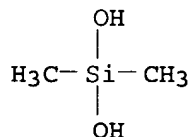


● Cl<sup>-</sup>

RN 31900-57-9 HCAPLUS  
 CN Silanediol, dimethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 1066-42-8  
CMF C2 H8 O2 Si



L34 ANSWER 13 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2005:75476 HCAPLUS

DN 142:140763

TI Oxidative **hair dyeing** or bleaching compositions and their application method

IN Nishizawa, Eiichi; Miyabe, Hajime; Matsuo, Takashi

PA Kao Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 15 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE     |
|------|----------------|------|----------|-----------------|----------|
| PI   | JP 2005023023  | A2   | 20050127 | JP 2003-190834  | 20030703 |
| PRAI | JP 2003-190834 |      | 20030703 |                 |          |

AB The compns. contain NH3 or ammonium ion, (bi)carbonate ion, **amino**-modified **silicones** or Me polysiloxanes, cationic polymers, oxidizing agents, and optional oxidative dye intermediates or direct dyes. The compns. show **hair-conditioning** effect, uniform **dyeing** or bleaching, and fastness to shampooing. A **hair dye** consisted of a 1st agent containing aqueous NH3 6.0, NH4HCO3 3.0, Merquat 550 2.0, Merquat 280 1.5, SM 8704C (amodimethicone) 2.0, and di-Me polysiloxane 0.7 weight% and a 2nd agent containing H2O2.

IC ICM A61K007-13

CC 62-3 (Essential Oils and Cosmetics)

ST oxidative **hair dye** bleach ammonia carbonate;

**amino silicone** oxidative **hair dye**

bleach; cationic polymer oxidative **hair dye** bleach;

methyl polysiloxane oxidative **hair dye** bleach

IT Alcohols, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(C16-18; oxidative **hair dyes** or bleaches containing

ammonia, carbonate, silicones, and cationic polymers)

IT **Polysiloxanes**, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

([(**aminoethyl**)**amino**]propyl hydroxy, di-Me, SM

8704C; oxidative **hair dyes** or bleaches containing

ammonia, carbonate, silicones, and cationic polymers)

IT Hair preparations

(bleaches; oxidative **hair dyes** or bleaches containing

ammonia, carbonate, silicones, and cationic polymers)

IT Hair preparations

(**dyes**, oxidative; oxidative **hair dyes** or

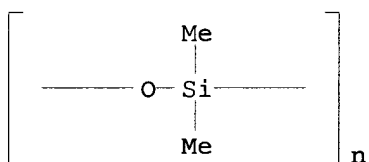
bleaches containing ammonia, carbonate, silicones, and cationic polymers)

IT Alcohols, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(long-chain; oxidative **hair dyes** or bleaches containing ammonia, carbonate, silicones, and cationic polymers)

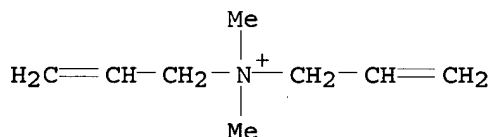
- IT Bicarbonates  
Carbonates, biological studies  
Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(oxidative **hair dyes** or bleaches containing ammonia, carbonate, silicones, and cationic polymers)
- IT 661-19-8, Behenyl alcohol 1066-33-7, Ammonium hydrogen carbonate 7664-41-7, Ammonia, biological studies 9016-00-6, Dimethylsilanediol homopolymer, sru 26062-79-3, Merquat 100 26590-05-6, Merquat 550 31900-57-9, Dimethylsilanediol homopolymer 34513-50-3, Octyldodecanol 53694-17-0, Merquat 280  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(oxidative **hair dyes** or bleaches containing ammonia, carbonate, silicones, and cationic polymers)
- IT 9016-00-6, Dimethylsilanediol homopolymer, sru 26062-79-3, Merquat 100 31900-57-9, Dimethylsilanediol homopolymer  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(oxidative **hair dyes** or bleaches containing ammonia, carbonate, silicones, and cationic polymers)
- RN 9016-00-6 HCAPLUS  
CN Poly[oxy(dimethylsilylene)] (8CI, 9CI) (CA INDEX NAME)



- RN 26062-79-3 HCAPLUS  
CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8  
CMF C8 H16 N . Cl



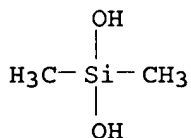
● Cl<sup>-</sup>

- RN 31900-57-9 HCAPLUS  
CN Silanediol, dimethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 1066-42-8

CMF C2 H8 O2 Si



L34 ANSWER 14 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2005:33473 HCAPLUS

DN 142:99928

TI Fading inhibitor compositions containing siloxanes for **dyed hair**

IN Murata, Takeshi

PA Kanebo, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE     |
|------|----------------|------|----------|-----------------|----------|
| PI   | JP 2005008554  | A2   | 20050113 | JP 2003-174426  | 20030619 |
| PRAI | JP 2003-174426 |      | 20030619 |                 |          |

AB The fading inhibitor compns. contain siloxanes (dynamic viscosity  $\leq 5000$  mm<sup>2</sup>/s at 25°) and siloxanes (dynamic viscosity  $\geq 100,000$  mm<sup>2</sup>/s at 25°). **Dyed hair** was treated with a composition containing dimethylpolysiloxane (dynamic viscosity 100 mm<sup>2</sup>/s) 2, dimethylpolysiloxane (dynamic viscosity 2,000,000 mm<sup>2</sup>/s) 3, di-Et sebacate 2, alkyltrimethylammonium chloride 3, cetostearyl alc. 5, and H<sub>2</sub>O to 100 weight%, and rinsed. The fading inhibitor composition improved color fastness of the **dyed hair** to shampooing and showed hair-conditioning effect.

IC ICM A61K007-06

ICS A61K007-00; A61K007-08

CC 62-3 (Essential Oils and Cosmetics)

ST **dyed hair** fading inhibitor siloxane ethyl sebacate; conditioner **dyed hair** siloxane ethyl sebacate

IT Polysiloxanes, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(Me, BY 22-009; compns. containing two kinds of siloxanes and optionally, di-Et sebacate, for fading inhibition and conditioning of **dyed hair**)

IT Polysiloxanes, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(amino-containing, SF 8451C; compns. containing two kinds of siloxanes and optionally, di-Et sebacate, for fading inhibition and conditioning of **dyed hair**)

IT Human

(compns. containing two kinds of siloxanes and optionally, di-Et sebacate, for fading inhibition and conditioning of **dyed hair**)

IT Polysiloxanes, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

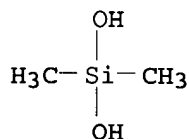
(compns. containing two kinds of siloxanes and optionally, di-Et sebacate, for fading inhibition and conditioning of **dyed hair**)

- IT Hair preparations  
(conditioners; compns. containing two kinds of siloxanes and optionally, di-Et sebacate, for fading inhibition and conditioning of **dyed hair**)
- IT Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(di-Me, Me Ph, SH 556; compns. containing two kinds of siloxanes and optionally, di-Et sebacate, for fading inhibition and conditioning of **dyed hair**)
- IT Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(di-Me, hydroxyalkyl Me, ethoxylated, SH 3771M; compns. containing two kinds of siloxanes and optionally, di-Et sebacate, for fading inhibition and conditioning of **dyed hair**)
- IT Hair preparations  
(emulsions; compns. containing two kinds of siloxanes and optionally, di-Et sebacate, for fading inhibition and conditioning of **dyed hair**)
- IT 42557-10-8, BY 22-050A  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(XS 65B7116; compns. containing two kinds of siloxanes and optionally, di-Et sebacate, for fading inhibition and conditioning of **dyed hair**)
- IT 31900-57-9 31900-57-9D, Dimethylsilanediol homopolymer, trimethylsilyl-terminated  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(assumed monomers; compns. containing two kinds of siloxanes and optionally, di-Et sebacate, for fading inhibition and conditioning of **dyed hair**)
- IT 110-40-7, Diethyl sebacate 540-97-6, DC 246 9016-00-6, Dimethylpolysiloxane  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(compns. containing two kinds of siloxanes and optionally, di-Et sebacate, for fading inhibition and conditioning of **dyed hair**)
- IT 31900-57-9 31900-57-9D, Dimethylsilanediol homopolymer, trimethylsilyl-terminated  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(assumed monomers; compns. containing two kinds of siloxanes and optionally, di-Et sebacate, for fading inhibition and conditioning of **dyed hair**)
- RN 31900-57-9 HCAPLUS  
CN Silanediol, dimethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 1066-42-8

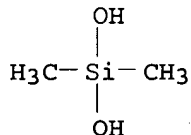
CMF C2 H8 O2 Si



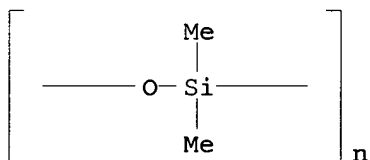
RN 31900-57-9 HCAPLUS  
CN Silanediol, dimethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 1066-42-8  
CMF C2 H8 O2 Si

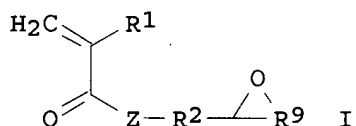


IT 9016-00-6, Dimethylpolysiloxane  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(comps. containing two kinds of siloxanes and optionally, di-Et sebacate,  
for fading inhibition and conditioning of dyed hair  
)  
RN 9016-00-6 HCAPLUS  
CN Poly[oxy(dimethylsilylene)] (8CI, 9CI) (CA INDEX NAME)



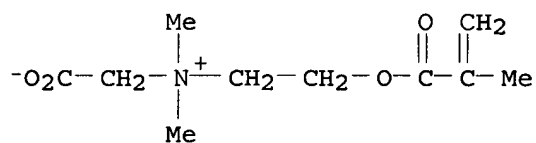
L34 ANSWER 15 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN  
AN 2004:1073406 HCAPLUS  
DN 142:62277  
TI Polymer compositions for dyeing with good color fastness, and  
cosmetics containing them  
IN Saruwatari, Yoshiyuki  
PA Osaka Yuki Kagaku Kogyo Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 14 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
FAN.CNT 1

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE     |
|------|----------------|------|----------|-----------------|----------|
| PI   | JP 2004352888  | A2   | 20041216 | JP 2003-153240  | 20030529 |
| PRAI | JP 2003-153240 |      | 20030529 |                 |          |
| GI   |                |      |          |                 |          |



- AB The polymer compns., useful for cosmetics for hair **dyeing**, are obtained by copolymn. of monomer compns. containing 5-85 weight% monomers (A) selected from betaine monomers [H2C:CR1COZR2NR3R4R5]+.CO2- and cationic monomers [H2C:CR1COZR2NR6R7R8]+.X- [R1 = H, Me; R2 = C1-8 alkylene; R3, R4, R6-R8 = C1-4 alkyl; R5 = C1-4 alkylene; Z = O, N; X = (in)organic group] with 15-95 weight% monomers selected from cyclic ether group-containing monomers I (R1, R2, Z = same as above; R9 = C1-8 alkylene) and monomers H2C:CR1R10 (R1 = same as above; R10 = polymerizable group). N-methacryloyloxyethyl-N,N-dimethylammonium- $\alpha$ -methylcarboxybetaine 25, tetrahydrofurfuryl methacrylate 50, N-vinylpyrrolidone 15, and diacetone acrylamide 10 weight% were copolymd. in EtOH in the presence of AIBN to give a polymer solution A composition containing the polymer and adipic acid dihydrazide was applied on human gray hair and dried to give **dyed** hair whose color did not change after 1-mo storage or by shampooing 5 times.
- IC ICM C08F220-34  
ICS A61K007-13; C08F220-28; C08F220-60; D06P001-52; D06P003-06
- CC 62-3 (Essential Oils and **Cosmetics**)  
Section cross-reference(s): 37, 41
- ST methacrylate copolymer hair **dye** color fastness; betaine cyclic ether methacrylate copolymer hair **dye**; cationic cyclic ether acrylate copolymer hair **dye**
- IT **Dyes**  
(acid; preparation of polymer compns. for hair **dyes** with good color fastness)
- IT Hair preparations  
(**dyes**; preparation of polymer compns. for hair **dyes** with good color fastness)
- IT Human  
(preparation of polymer compns. for hair **dyes** with good color fastness)
- IT 88-12-0DP, polymers with oxetane/dioxolane methacrylates, and methacrylate derivs. 2680-03-7DP, polymers with diacetone acrylamide, oxetane/dioxolane methacrylates, and methacrylate derivs. 2873-97-4DP, polymers with diacetone acrylamide, oxetane/dioxolane methacrylates, and methacrylate derivs. 13223-03-5DP, polymers with diacetone acrylamide, oxetane/dioxolane methacrylates, and methacrylate derivs. 21142-29-0DP, polymers with diacetone acrylamide, oxetane/dioxolane methacrylates, and methacrylate derivs. 62723-61-9DP, polymers with diacetone acrylamide, oxetane/dioxolane methacrylates, and methacrylate derivs. 807662-48-2P 807662-49-3P 807662-50-6P 807662-51-7P 807662-52-8P  
RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of polymer compns. for hair **dyes** with good color fastness)
- IT 807662-49-3P  
RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of polymer compns. for hair **dyes** with good color fastness)
- RN 807662-49-3 HCAPLUS
- CN Ethanaminium, N-(carboxymethyl)-N,N-dimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, inner salt, polymer with 1-ethenyl-2-pyrrolidinone, (tetrahydro-2-furanyl)methyl 2-methyl-2-propenoate and 3-(triethoxysilyl)propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)
- CM 1
- CRN 62723-61-9  
CMF C10 H17 N O4

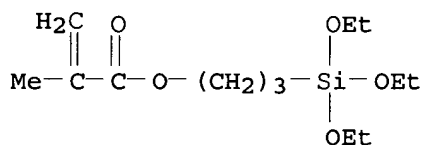




CM 2

CRN 21142-29-0

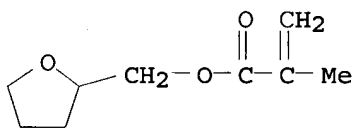
CMF C13 H26 O5 Si



CM 3

CRN 2455-24-5

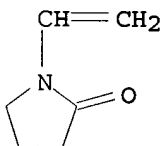
CMF C9 H14 O3



CM 4

CRN 88-12-0

CMF C6 H9 N O



L34 ANSWER 16 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN  
 AN 2004:993156 HCAPLUS  
 DN 141:415598  
 TI Hair discoloration-preventing compositions containing organic amine compounds  
 IN Kageyama, Motohiro; Koyama, Takashi  
 PA Lion Corp., Japan  
 SO Jpn. Kokai Tokkyo Koho, 10 pp.  
 CODEN: JKXXAF

DT Patent  
LA Japanese  
FAN.CNT 1

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE     |
|------|----------------|------|----------|-----------------|----------|
| PI   | JP 2004323491  | A2   | 20041118 | JP 2003-149934  | 20030422 |
| PRAI | JP 2003-149934 |      | 20030422 |                 |          |

AB The invention relates to a hair composition for prevention of discoloration of dyed or bleached hair caused by chlorine-containing water, characterized by containing an organic amine compound having C8-30 alkyl or alkenyl groups and having an amine value of 40-400 mg/g, or its salt. A hair conditioner containing stearamidopropyl di-Me amine 1, cetanol 2, behenyl alc. 2, oleyl alc. 2, di-Me silicones 3, oleic acid 0.2, trimethylglycine 0.2, arginine 0.3, glutamic acid 0.2, glyceryl monostearate 0.1, sorbitan monolaurate 0.1, parabens q.s., phosphoric acid q.s., fragrance 0.5, and water balance to 100 % was formulated.

IC ICM A61K007-06

ICS A61K007-08

CC 62-3 (Essential Oils and Cosmetics)

IT Polysiloxanes, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(amino-containing; hair discoloration-preventing compns. containing organic amine compds. and other defined ingredients)

IT 109-28-4 112-80-1, Oleic acid, biological studies 112-92-5, Stearyl alcohol 143-28-2, Oleyl alcohol 661-19-8, Behenyl alcohol 1338-41-6, Sorbitan monostearate 7651-02-7, Stearic acid dimethylaminopropylamide 9002-92-0, Polyoxyethylene lauryl ether 9016-00-6, Dimethylsilicone 26636-40-8, Polyoxyethylene behenyl ether 28696-31-3D, L-Arginine ethyl ester, N-coco acyl derivs. 30399-84-9, Isostearic acid 31566-31-1, Glyceryl monostearate 31692-79-2, Dimethiconol 36653-82-4, Cetanol 39669-97-1 52292-17-8, Polyoxyethylene isostearyl ether 60270-33-9, Behenic acid dimethylaminopropylamide 67645-67-4 67799-04-6 67806-13-7 69506-95-2 159858-54-5 160854-59-1 211516-10-8 261948-84-9D, alkyl derivs. 374573-32-7, Pentaglycerin tristearate 792912-81-3 792912-82-4

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(hair discoloration-preventing compns. containing organic amine compds. and other defined ingredients)

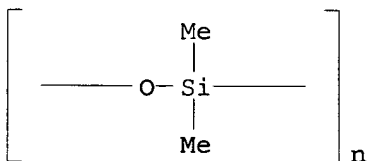
IT 9016-00-6, Dimethylsilicone

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(hair discoloration-preventing compns. containing organic amine compds. and other defined ingredients)

RN 9016-00-6 HCAPLUS

CN Poly[oxy(dimethylsilylene)] (8CI, 9CI) (CA INDEX NAME)



L34 ANSWER 17 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:822833 HCAPLUS

DN 141:319501

TI Hair dye composition for keratinic materials

comprising a fluorescent dye and an aminosilicone

IN Gourlaouen, Luc; Samain, Henri

PA L'oreal, Fr.

SO Eur. Pat. Appl., 30 pp.

CODEN: EPXXDW

DT Patent

LA French

FAN.CNT 1

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|------|---|------|----------|-----------------|----------|
| PI   | EP 1464321  | A1   | 20041006 | EP 2004-290863  | 20040401 |
|      | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR |      |          |                 |          |
|      | FR 2853233  | A1   | 20041008 | FR 2003-4027    | 20030401 |
|      | JP 2004307496   | A2   | 20041104 | JP 2004-108822  | 20040401 |
|      | BR 2004001188   | A    | 20050118 | BR 2004-1188    | 20040401 |
|      | US 2005031563   | A1   | 20050210 | US 2004-814428  | 20040401 |
| PRAI | FR 2003-4027  | A    | 20030401 |                 |          |
|      | US 2003-468107P   | P    | 20030506 |                 |          |

OS MARPAT 141:319501

AB **Hair dye** preps. comprising a particulate fluorescent dye and an aminosilicone are disclosed. Thus, 1,6-dibromohexane was reacted with 2-picoline to obtain a precipitate which was separated and reacted with p-dimethylaminobenzaldehyde to obtain 1,6-bis[(2-p-dimethylaminophenylethenyl)pyridinium]hexane polymer (I). A **hair dye** composition contained I 1, DC2939 0.2, and water q.s. 100%.

IC ICM A61K007-13

ICS A61K007-48

CC 62-3 (Essential Oils and Cosmetics)

Section cross-reference(s): 25

ST **hair dye keratinic** material fluorescent dye aminosilicone

IT Polysiloxanes, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(Dow Corning 2939; **hair dye** composition for

**keratinic** materials comprising fluorescent dye and aminosilicone)

IT **Polysiloxanes**, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)

(amino; **hair dye** composition for

**keratinic** materials comprising fluorescent dye and aminosilicone)

IT Lactones

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(aza; **hair dye** composition for **keratinic**

materials comprising fluorescent dye and aminosilicone)

IT **Dyes**

(azomethine; **hair dye** composition for **keratinic**

materials comprising fluorescent dye and aminosilicone)

IT **Hair preparations**

(dyes; **hair dye** composition for

**keratinic** materials comprising fluorescent dye and aminosilicone)

IT **Azo dyes**

Cyanine dyes

(**hair dye** composition for **keratinic** materials

comprising fluorescent dye and aminosilicone)

IT Lactams

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(naphtho; **hair dye** composition for **keratinic**

materials comprising fluorescent dye and aminosilicone)

IT **Dyes**  
(oxazines and thiazines; hair dye composition for keratinic materials comprising fluorescent dye and aminosilicone)

IT 81-83-4D, Naphthalimide, derivs. 91-64-5D, Coumarin, derivs. 92-83-1D, Xanthene, aza derivs. 2465-27-2 9016-00-6, Dow Corning 2-8299 29556-33-0  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(hair dye composition for keratinic materials comprising fluorescent dye and aminosilicone)

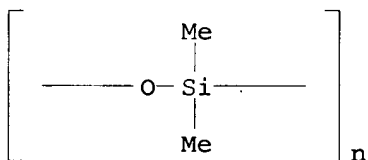
IT 139537-27-2P  
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(hair dye composition for keratinic materials comprising fluorescent dye and aminosilicone)

IT 100-10-7, p-Dimethylaminobenzaldehyde. 109-06-8, 2 Picoline 629-03-8, 1,6-Dibromohexane  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(hair dye composition for keratinic materials comprising fluorescent dye and aminosilicone)

IT 255-58-3, 2H-Quinolizine  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(xanthenodi; hair dye composition for keratinic materials comprising fluorescent dye and aminosilicone)

IT 9016-00-6, Dow Corning 2-8299  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(hair dye composition for keratinic materials comprising fluorescent dye and aminosilicone)

RN 9016-00-6 HCAPLUS  
CN Poly[oxy(dimethylsilylene)] (8CI, 9CI) (CA INDEX NAME)



L34 ANSWER 18 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:681491 HCAPLUS

DN 141:194942

TI Preparation of polyamino and/or polyammonium-polysiloxane copolymers and use in hair preparations

IN Lange, Horst; Wagner, Roland; Kropfgans, Martin; Musiol, Sabine

PA GE Bayer Silicones GmbH & Co. KG, Germany

SO PCT Int. Appl., 116 pp.

CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 1

|    | PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE     |
|----|--|------|----------|-----------------|----------|
| PI | WO 2004069137  | A2   | 20040819 | WO 2004-EP50091 | 20040206 |
|    | WO 2004069137  | A3   | 20041021 |                 |          |
|    | W: AE, AE, AG, AL, AL, AM, AM, AM, AT, AT, AU, AZ, AZ, BA, BB, BG, BG, BR, BR, BW, BY, BY, BZ, BZ, CA, CH, CN, CN, CO, CO, CR, CR, |      |          |                 |          |

CU, CU, CZ, CZ, DK, DK, DM, DZ, EC, EC, EE, EE, EG, ES, ES, FI,  
FI, GB, GD, GE, GE, GH, GM, HR, HR, HU, HU, ID, IL, IN, IS, JP,  
JP, KE, KE, KG, KG, KP, KP, KP, KR, KR, KZ, KZ, KZ, LC, LK, LR,  
LS, LS, LT, LU, LV, MA, MD, MD, MG, MK, MN, MW, MX, MX, MZ, MZ,  
NA, NI, NI, NO

RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE,  
BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU,  
MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG, BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG

DE 10304923 A1 20040826 DE 2003-10304923 20030207

PRAI DE 2003-10304923 A 20030207

DE 2003-10333375 A 20030723

AB The invention relates to the use of linear or cross-linked polyamino and/or polyammonium-polysiloxane copolymers comprising repeater units of formula: -[Q-V]- in the production and/or treatment of dyed hair in addition to compns. for the production and/or treatment of dyed hair. The copolymers are used before, during or after hair dying; alos hair gels, styling products, and sprays are prepared Thus PAR1 was prepared from N,N, N',N'-tetramethyl-1,6-hexane diamine and Jeffamin ED 600 and stored as an aqueous emulsion. A 43.5% of the prepared silicone-containing composition was

used in a hair shampoo as a 4.6 weight/weight% component; other ingredients were (weight/weight%): ammonium lauryl sulfate (26%) 24; ammonium laureth sulfate (28%) 14.3; cocoamidopropyl betaine (35%) 11.43; polyquaternium-10 0.5; water 54.17.

IC ICM A61K

CC 62-3 (Essential Oils and Cosmetics)

Section cross-reference(s): 38

IT Hair preparations

(dyes, oxidative; preparation of polyamino and/or polyammonium-polysiloxane copolymers and use in hair preps.)

IT Hair preparations

(dyes; preparation of polyamino and/or polyammonium-polysiloxane copolymers and use in hair preps.)

IT 608530-63-8P 609340-85-4P 740815-32-1P 740839-04-7P

RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of polyamino and/or polyammonium-polysiloxane copolymers and use in hair preps.)

IT 609340-85-4P 740839-04-7P

RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of polyamino and/or polyammonium-polysiloxane copolymers and use in hair preps.)

RN 609340-85-4 HCAPLUS

CN Dodecanoic acid, compd. with  $\alpha$ -[dimethyl[3-(oxiranylmethoxy)propyl]silyl]- $\omega$ -[[dimethyl[3-(oxiranylmethoxy)propyl]silyl]oxy]poly[oxy(dimethylsilylene)] polymer with methyloxirane polymer with oxirane bis(2-aminopropyl) ether and N,N,N',N'-tetramethyl-1,6-hexanediamine acetate (9CI) (CA INDEX NAME)

CM 1

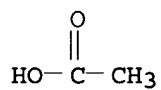
CRN 143-07-7

CMF C12 H24 O2

HO<sub>2</sub>C-(CH<sub>2</sub>)<sub>10</sub>-Me

CM 2

CRN 64-19-7  
 CMF C2 H4 O2

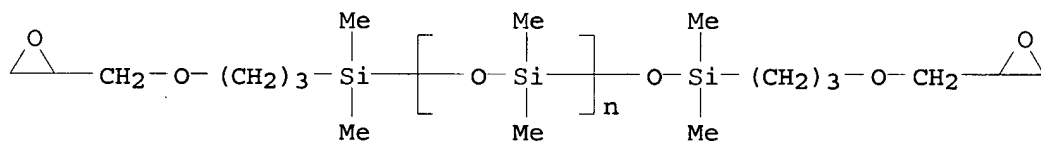


CM 3

CRN 398137-95-6  
 CMF (C10 H24 N2 . C3 H9 N O . 1/2 (C3 H6 O . C2 H4 O)x . (C2 H6 O Si)n  
 C16 H34 O5 Si2)x  
 CCI PMS

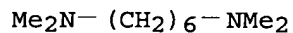
CM 4

CRN 130167-23-6  
 CMF (C2 H6 O Si)n C16 H34 O5 Si2  
 CCI PMS



CM 5

CRN 111-18-2  
 CMF C10 H24 N2

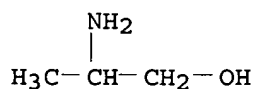


CM 6

CRN 65605-36-9  
 CMF C3 H9 N O . 1/2 (C3 H6 O . C2 H4 O)x

CM 7

CRN 6168-72-5  
 CMF C3 H9 N O



CM 8

CRN 9003-11-6

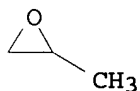
CMF (C3 H6 O . C2 H4 O)x

CCI PMS

CM 9

CRN 75-56-9

CMF C3 H6 O



CM 10

CRN 75-21-8

CMF C2 H4 O



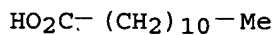
RN 740839-04-7 HCAPLUS

CN 1,6-Hexanediamine, N,N,N',N'-tetramethyl-, polymer with  
 $\alpha$ -[dimethyl[3-(oxiranylmethoxy)propyl]silyl]- $\omega$ -[[dimethyl[3-(oxiranylmethoxy)propyl]silyl]oxy]poly[oxy(dimethylsilylene)] and  
 methyloxirane polymer with oxirane bis(2-aminopropyl) ether, acetate  
 (salt) dodecanoate (salt), compd. with N,N-dimethylmethanamine (9CI) (CA  
 INDEX NAME)

CM 1

CRN 143-07-7

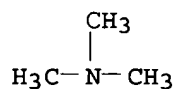
CMF C12 H24 O2



CM 2

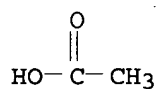
CRN 75-50-3

CMF C3 H9 N



CM 3

CRN 64-19-7  
CMF C2 H4 O2

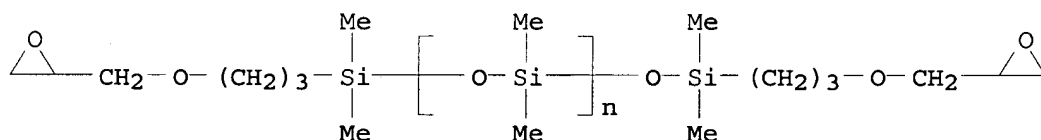


CM 4

CRN 398137-95-6  
CMF (C10 H24 N2 . C3 H9 N O . 1/2 (C3 H6 O . C2 H4 O)x . (C2 H6 O Si)n  
C16 H34 O5 Si2)x  
CCI PMS

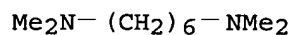
CM 5

CRN 130167-23-6  
CMF (C2 H6 O Si)n C16 H34 O5 Si2  
CCI PMS



CM 6

CRN 111-18-2  
CMF C10 H24 N2



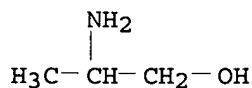
CM 7

CRN 65605-36-9  
CMF C3 H9 N O . 1/2 (C3 H6 O . C2 H4 O)x

CM 8

CRN 6168-72-5  
CMF C3 H9 N O





CM 9

CRN 9003-11-6

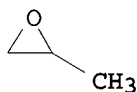
CMF (C3 H6 O . C2 H4 O)x

CCI PMS

CM 10

CRN 75-56-9

CMF C3 H6 O



CM 11

CRN 75-21-8

CMF C2 H4 O



L34 ANSWER 19 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:680297 HCAPLUS

DN 141:212336

TI Hair compositions containing polyhydric alc.-modified silicones and cationic surfactants

IN Miyagawa, Satsuki; Ishimori, Toshihiro

PA Kosei Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 20 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

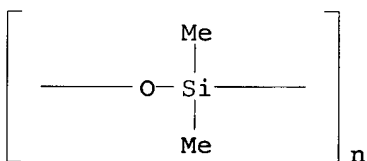
FAN.CNT 1

|      | PATENT NO.    | KIND | DATE     | APPLICATION NO. | DATE     |
|------|---------------|------|----------|-----------------|----------|
| PI   | JP 2004231607 | A2   | 20040819 | JP 2003-24869   | 20030131 |
| PRAI | JP 2003-24869 |      | 20030131 |                 |          |

AB The invention relates to a hair composition providing excellent hair conditioning effects and feeling in use, wherein the composition is characterized by containing defined polyhydric alc.-modified polysiloxane and a cationic surfactant. A polyhydric alc.-modified polysiloxane was prepared from trimethylsilyl-terminated methylhydrogenpolysiloxane, vinyl/trimethylsilyl-terminated dimethylpolysiloxane, and triglycerin monoallyl ether. The obtained modified polysiloxane 10 parts was mixed

with alkyl trimethylammonium chloride 2, cetanol 5, dimethylpolysiloxane (KF096A-6cs) 5, propylene glycol 5, preservative/fragrance q.s., and water balance to 100 % to give a hair conditioner.

- IC ICM A61K007-06  
ICS A61K007-08; A61K007-09; A61K007-11; A61K007-13; A61K007-135  
CC 62-3 (Essential Oils and Cosmetics)  
Section cross-reference(s): 37  
IT **Polysiloxanes**, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(amino-containing; hair compns. containing polyhydric alc.-modified silicones and cationic surfactants with/without other organopolysiloxanes)  
IT **Hair preparations**  
(dyes; hair compns. containing polyhydric alc.-modified silicones and cationic surfactants with/without other organopolysiloxanes)  
IT **Polysiloxanes**, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(polyoxyethylene-, amino-containing, block; hair compns. containing polyhydric alc.-modified silicones and cationic surfactants with/without other organopolysiloxanes)  
IT **9016-00-6**, Poly[oxy(dimethylsilylene)]  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(KF-96A-10cs, KF-96A-6cs, L-45; hair compns. containing polyhydric alc.-modified silicones and cationic surfactants with/without other organopolysiloxanes)  
IT **9016-00-6**, Poly[oxy(dimethylsilylene)]  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(KF-96A-10cs, KF-96A-6cs, L-45; hair compns. containing polyhydric alc.-modified silicones and cationic surfactants with/without other organopolysiloxanes)  
RN 9016-00-6 HCAPLUS  
CN Poly[oxy(dimethylsilylene)] (8CI, 9CI) (CA INDEX NAME)

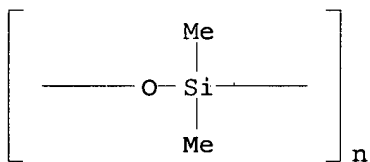


L34 ANSWER 20 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN  
AN 2004:492638 HCAPLUS  
DN 141:42552  
TI **Hair dye** or bleach compositions containing royal jelly or its extract  
IN Shinkai, Masakazu  
PA Kanebo, Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 12 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
FAN.CNT 1

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE     |
|------|----------------|------|----------|-----------------|----------|
| PI   | JP 2004168733  | A2   | 20040617 | JP 2002-338872  | 20021122 |
| PRAI | JP 2002-338872 |      | 20021122 |                 |          |

- AB The invention relates to a **hair dye** or **hair** bleach composition consisting of an alkali agent-containing 1st composition and an oxidizing agent-containing 2nd composition with/without of 3rd composition, wherein the 1st and/or 2nd composition contains royal jelly or its extract The **hair dye** composition of the present invention provides excellent **hair-dyeing** effect and **hair-conditioning** effect. A **hair dye** 1st composition containing royal jelly extract 0.5, cetanol 3, iso-Pr isostearate 0.4, beeswax 0.25, propylene glycol 10, sodium cetyl sulfate 0.45, polyoxyethylene cetyl ether 0.8, ammonia solution 5, p-phenylenediamine 0.4, p-aminophenol 0.3, m-aminophenol 0.1, ammonium thioglycolate 0.4, tetrasodium edetate 0.1, fragrance 0.4, di-Me polysiloxane 1, and water q.s. to 100 % was formulated.
- IC ICM A61K007-13
- CC 62-3 (Essential Oils and Cosmetics)
- ST royal jelly ext **hair dye** bleach
- IT Collagens, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (Neptigen N; **hair dye** or bleach compns. containing royal jelly or its extract with **polysiloxane**, peptides, **amino** acids, and/or amphoteric polymers)
- IT Polyelectrolytes  
 (amphoteric; **hair dye** or bleach compns. containing royal jelly or its extract with **polysiloxane**, peptides, **amino** acids, and/or amphoteric polymers)
- IT Hair preparations  
 (bleaches; **hair dye** or bleach compns. containing royal jelly or its extract with **polysiloxane**, peptides, **amino** acids, and/or amphoteric polymers)
- IT Polysiloxanes, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (di-Me, hydroxyalkyl Me, ethoxylated; **hair dye** or bleach compns. containing royal jelly or its extract with **polysiloxane**, peptides, **amino** acids, and/or amphoteric polymers)
- IT Hair preparations  
 (dyes, oxidative; **hair dye** or bleach compns. containing royal jelly or its extract)
- IT Human  
 Royal jelly  
 (**hair dye** or bleach compns. containing royal jelly or its extract)
- IT Amino acids, biological studies  
 Peptides, biological studies  
 Polysiloxanes, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (**hair dye** or bleach compns. containing royal jelly or its extract with **polysiloxane**, peptides, **amino** acids, and/or amphoteric polymers)
- IT Protein hydrolyzates  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (soya; **hair dye** or bleach compns. containing royal jelly or its extract with **polysiloxane**, peptides, **amino** acids, and/or amphoteric polymers)
- IT Protein hydrolyzates  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (wheat; **hair dye** or bleach compns. containing royal jelly or its extract with **polysiloxane**, peptides, **amino** acids, and/or amphoteric polymers)
- IT 56-40-6, Glycine, biological studies 56-41-7, L-Alanine, biological studies 74-79-3, L-Arginine, biological studies 147-85-3, L-Proline, biological studies 9016-00-6, Dimethylpolysiloxane 25136-75-8,

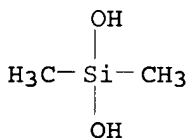
Merquat 3330 31900-57-9 53694-17-0, Merquat 295 121417-59-2  
 210637-32-4, Promois silk-1000  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hair dye or bleach compns. containing royal jelly or  
 its extract with polysiloxane, peptides, amino acids,  
 and/or amphoteric polymers)  
 IT 9016-00-6, Dimethylpolysiloxane 31900-57-9  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hair dye or bleach compns. containing royal jelly or  
 its extract with polysiloxane, peptides, amino acids,  
 and/or amphoteric polymers)  
 RN 9016-00-6 HCAPLUS  
 CN Poly[oxy(dimethylsilylene)] (8CI, 9CI) (CA INDEX NAME)



RN 31900-57-9 HCAPLUS  
 CN Silanediol, dimethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 1066-42-8  
 CMF C2 H8 O2 Si



L34 ANSWER 21 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN  
 AN 2004:470283 HCAPLUS  
 DN 141:28209  
 TI Oxidative hair dyeing compositions containing a dye  
 and an associative polymer and an amino silicone  
 IN Cottard, Francois; Rondeau, Christine  
 PA L'Oreal, Fr.  
 SO Eur. Pat. Appl., 48 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA French  
 FAN.CNT 1

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|------|---|------|----------|-----------------|----------|
| PI   | EP 1426038  | A1   | 20040609 | EP 2003-292932  | 20031126 |
|      | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK |      |          |                 |          |
|      | FR 2848103  | A1   | 20040611 | FR 2002-15470   | 20021206 |
|      | US 2004163187   | A1   | 20040826 | US 2003-728954  | 20031208 |
| PRAI | FR 2002-15470   | A    | 20021206 |                 |          |

*applicant*

US 2003-502614P P 20030915  
OS MARPAT 141:28209  
AB Oxidative **hair dyeing** compns. contain a dye and an associative polymer and an **amino silicone**. Thus, a composition contained mixture of C18-24 linear alcs. 3, ethoxylated stearyl alc. 6.25, oleic acid 2.6, a polyurethane 0.2, Carbopol-980 0.4, HPMC 0.2, coco fatty acid monoisopropanolamide 3, **amino silicone** (SLM 28020) 3, propylene glycol 2, sodium metabisulfite 0.71, EDTA 0.2, tert-butylhydroquinone 0.3, 1,4-diaminobenzene 0.2, p-aminophenol 1.2, 1,3-dihydroxybenzene 0.1, m-aminophenol 0.2, 1-methyl-2-hydroxy-4 $\beta$ -hydroxyethylaminobenzene 0.8, monoethanolamine 1, 20% ammonia 11, perfume qs, and water qs to 100%. Just before use, 7.5% H2O2, and 1 part dye/1.5 parts oxidant were added to the above composition  
IC ICM A61K007-13  
CC 62-3 (Essential Oils and Cosmetics)  
ST **amino silicone** oxidative **hair dye**; polymer oxidative **hair dye**  
IT Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(3-[(2-aminoethyl)amino]propyl Me, di-Me; oxidative **hair dyeing** compns. containing **dye** and associative polymer and **amino silicone**)  
IT Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
([(aminoethyl)amino]propyl, di-Me; oxidative **hair dyeing** compns. containing **dye** and associative polymer and **amino silicone**)  
IT Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(**amino**; oxidative **hair dyeing** compns. containing oxidation dye and associative polymer and **amino silicone**)  
IT Polyelectrolytes  
Surfactants  
(amphoteric; oxidative **hair dyeing** compns. containing **dye** and associative polymer and **amino silicone**)  
IT Polyelectrolytes  
Surfactants  
(anionic; oxidative **hair dyeing** compns. containing **dye** and associative polymer and **amino silicone**)  
IT Polyelectrolytes  
Surfactants  
(cationic; oxidative **hair dyeing** compns. containing **dye** and associative polymer and **amino silicone**)  
IT Ionene polymers  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(dialkyldiallylammonium-based; oxidative **hair dyeing** compns. containing **dye** and associative polymer and **amino silicone**)  
IT **Dyes**  
(direct; oxidative **hair dyeing** compns. containing **dye** and associative polymer and **amino silicone**)  
IT **Hair preparations**  
(**dyes**, oxidative; oxidative **hair dyeing** compns. containing oxidation dye and associative polymer and **amino silicone**)

- IT Surfactants  
(nonionic; oxidative **hair dyeing** compns. containing **dye** and associative polymer and **amino silicone**)
- IT Gums and Mucilages  
Oxidizing agents  
Reducing agents  
Surfactants  
Thickening agents  
(oxidative **hair dyeing** compns. containing **dye** and associative polymer and **amino silicone**)
- IT Aminoplasts  
Ionene polymers  
Polymers, biological studies  
Polyolefins  
Polyoxyalkylenes, biological studies  
Polyurethanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(oxidative **hair dyeing** compns. containing **dye** and associative polymer and **amino silicone**)
- IT Polyurethanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(polyether-, block, triblock; oxidative **hair dyeing** compns. containing **dye** and associative polymer and **amino silicone**)
- IT Polyurethanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(polyether-; oxidative **hair dyeing** compns. containing **dye** and associative polymer and **amino silicone**)
- IT Enzymes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(redox; oxidative **hair dyeing** compns. containing **dye** and associative polymer and **amino silicone**)
- IT Surfactants  
(zwitterionic; oxidative **hair dyeing** compns. containing **dye** and associative polymer and **amino silicone**)
- IT 79-10-7D, Acrylic acid, esters, polymers 79-41-4D, MethAcrylic acid, esters, polymers 88-12-0D, polymers 95-54-5, o-Phenylenediamine, biological studies 95-55-6, o-Aminophenol 106-50-3, p-Phenylenediamine, biological studies 108-31-6D, Maleic anhydride, polymers 108-45-2, m-Phenylenediamine, biological studies 108-46-3, Resorcinol, biological studies 110-16-7D, Maleic acid, esters, polymers 123-30-8, p-Aminophenol 124-43-6 591-27-5, m-Aminophenol 7722-84-1, Hydrogen peroxide, biological studies 9000-30-0D, Guar gum, derivs. 9004-34-6D, Cellulose, derivs. 9004-62-0D, Hydroxyethyl cellulose, derivs. 9015-06-9 9016-00-6, Dow Corning 2-8299 26062-79-3, Dimethyldiallylammonium chloride homopolymer 31900-57-9, Dimethylsilanediol homopolymer 55302-96-0 68393-49-7 138757-67-2, Carbopol 980 223104-80-1 698973-63-6  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(oxidative **hair dyeing** compns. containing **dye** and associative polymer and **amino silicone**)
- IT 9015-06-9 9016-00-6, Dow Corning 2-8299 26062-79-3, Dimethyldiallylammonium chloride homopolymer 31900-57-9, Dimethylsilanediol homopolymer 68393-49-7 223104-80-1 698973-63-6

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (oxidative hair dyeing compns. containing dye  
 and associative polymer and amino silicone)

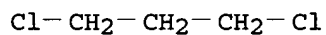
RN 9015-06-9 HCAPLUS

CN 1,6-Hexanediamine, N,N,N',N'-tetramethyl-, polymer with  
 1,3-dichloropropane (9CI) (CA INDEX NAME)

CM 1

CRN 142-28-9

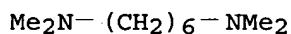
CMF C3 H6 Cl2



CM 2

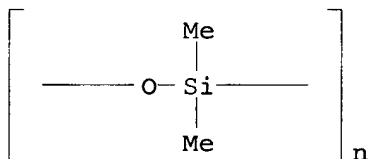
CRN 111-18-2

CMF C10 H24 N2



RN 9016-00-6 HCAPLUS

CN Poly[oxy(dimethylsilylene)] (8CI, 9CI) (CA INDEX NAME)



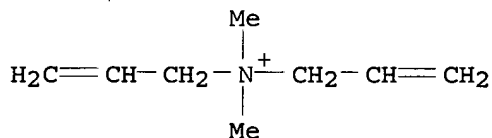
RN 26062-79-3 HCAPLUS

CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer  
 (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

CMF C8 H16 N . Cl



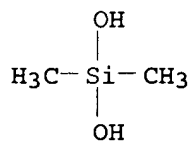
RN 31900-57-9 HCAPLUS

CN Silanediol, dimethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

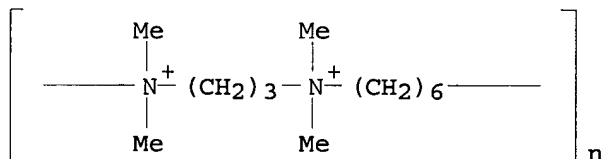
CRN 1066-42-8

CMF C2 H8 O2 Si



RN 68393-49-7 HCAPLUS

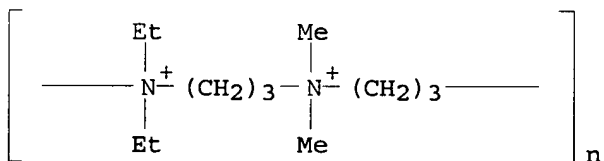
CN Poly[(dimethyliminio)-1,3-propanediyl(dimethyliminio)-1,6-hexanediyl dichloride] (9CI) (CA INDEX NAME)



● 2 Cl<sup>-</sup>

RN 223104-80-1 HCAPLUS

CN Poly[(diethyliminio)-1,3-propanediyl(dimethyliminio)-1,3-propanediyl dibromide] (9CI) (CA INDEX NAME)



● 2 Br<sup>-</sup>

RN 698973-63-6 HCAPLUS

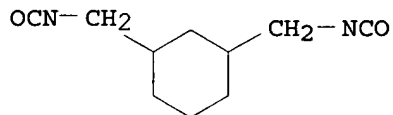
CN 1-Dodecanaminium, N-(2-hydroxyethyl)-N,N-dimethyl-, bromide, polymer with 1,3-bis(isocyanatomethyl)cyclohexane, 2-(dimethylamino)ethanol and α-hydro-ω-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 38661-72-2



CMF C10 H14 N2 O2

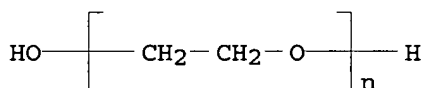


CM 2

CRN 25322-68-3

CMF (C2 H4 O)<sub>n</sub> H2 O

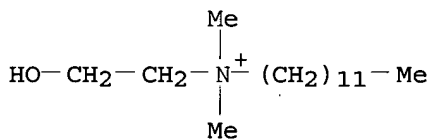
CCI PMS



CM 3

CRN 7009-61-2

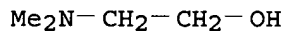
CMF C16 H36 N O . Br



CM 4

CRN 108-01-0

CMF C4 H11 N O



L34 ANSWER 22 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:409931 HCAPLUS

DN 140:411983

TI Hair preparations containing 2-methacryloyloxyethylphosphorylcholine polymers, cationic surfactants, and water-soluble polymers

IN Mizuno, Makoto; Konno, Minako

PA Kosei Co., Ltd., Japan

SO Jpn: Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DT Patent  
LA Japanese  
FAN.CNT 1

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE     |
|------|----------------|------|----------|-----------------|----------|
| PI   | JP 2004143065  | A2   | 20040520 | JP 2002-308109  | 20021023 |
| PRAI | JP 2002-308109 |      | 20021023 |                 |          |

AB Hair preps., which are nonsticky, give smoothness, moisturized texture, and elasticity to hair, and prevent fading of hair color when applied to **dyed hair**, contain (a)  $\geq 1$  selected from homopolymer of 2-methacryloyloxyethylphosphorylcholine (I) and copolymers of I with hydrophobic monomers, (b) cationic surfactants, (c) water-soluble polymers except (a), and optionally (d) silicone oils and (e) shea butter. Thus, a hair conditioner was prepared from Lipidure HM 500 (homopolymer of I) 0.2, octyl palmitate 0.5, behenyl alc. 2, cetanol 2, stearyltrimethylammonium chloride 0.1, propylene glycol 5, hydroxyethyl cellulose 2, antiseptic, perfume, and H<sub>2</sub>O to balance. The conditioner showed excellent hair-conditioning effect and prevented decoloration of **dyed hair**.

IC ICM A61K007-06

CC 62-3 (Essential Oils and Cosmetics)

ST hair conditioner methacryloyloxyethylphosphorylcholine polymer cationic surfactant water sol polymer; **dyed hair** decoloration prevention conditioner methacryloyloxyethylphosphorylcholine polymer

IT **Polysiloxanes**, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(((aminoethyl)amino)propyl hydroxy, di-Me, SM 8704C; hair preps. containing methacryloyloxyethylphosphorylcholine polymers, cationic surfactants, and water-soluble polymers)

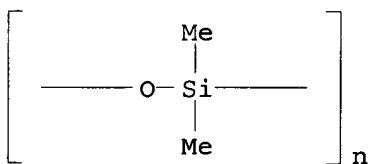
IT **Polysiloxanes**, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(polyoxyethylene-, amino-containing, block, Silstyle 401; hair preps. containing methacryloyloxyethylphosphorylcholine polymers, cationic surfactants, and water-soluble polymers)

IT 107-64-2, Distearyltrimethylammonium chloride 112-02-7, Cetyltrimethylammonium chloride 112-03-8, Stearyltrimethylammonium chloride 1120-02-1, Stearyltrimethylammonium bromide 9000-07-1, Carrageenan 9000-30-0D, Guar gum, cationic derivs. 9003-39-8, Polyvinylpyrrolidone 9004-62-0, Hydroxyethyl cellulose 9016-00-6, Poly[oxy(dimethylsilylene)] 67881-99-6, Lipidure HM 500 125275-25-4, Lipidure PMB  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(hair preps. containing methacryloyloxyethylphosphorylcholine polymers, cationic surfactants, and water-soluble polymers)

IT 9016-00-6, Poly[oxy(dimethylsilylene)]  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(hair preps. containing methacryloyloxyethylphosphorylcholine polymers, cationic surfactants, and water-soluble polymers)

RN 9016-00-6 HCAPLUS

CN Poly[oxy(dimethylsilylene)] (8CI, 9CI) (CA INDEX NAME)



L34 ANSWER 23 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN  
 AN 2004:249541 HCAPLUS  
 DN 140:258610  
 TI Simultaneous spray-type **hair dye** cream compositions  
 containing silicones  
 IN Shinkai, Masakazu  
 PA Kanebo, Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 12 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE     |
|------|----------------|------|----------|-----------------|----------|
| PI   | JP 2004091356  | A2   | 20040325 | JP 2002-253089  | 20020830 |
| PRAI | JP 2002-253089 |      | 20020830 |                 |          |

AB The **hair dye** cream compns. (including **hair** bleaches) comprise the 1st **hair dye** cream components containing alkalies and the 2nd **hair dye** cream components containing oxidizing agents and are placed in inner bag-containing pressure containers having pressure attachments for simultaneous spraying of the 1st and 2nd components, where either or both of the 1st and 2nd **hair dye** components contain silicones. A 1st composition containing 1.0 weight% di-Me polysiloxane (100,000 mm<sup>2</sup>/s), 2.0 weight% di-Me polysiloxane (10 mm<sup>2</sup>/s), aqueous NH<sub>3</sub>, p-phenylenediamine, p-aminophenol, m-aminophenol, ammonium thioglycolate, etc., and a 2nd composition containing 1.0 weight% di-Me polysiloxane (100,000 mm<sup>2</sup>/s), 2.0 weight% di-Me polysiloxane (10 mm<sup>2</sup>/s), aqueous H<sub>2</sub>O<sub>2</sub>, etc., were placed in inner bags of pressure containers, and N gas was injected into space between the inner bags and the pressure containers. Both of the compns. could be sprayed at constant amts. even after 3-mo storage at 45° and showed good hair-conditioning effect.

IC ICM A61K007-13

CC 62-3 (Essential Oils and Cosmetics)

ST **hair dye** cream aerosol spray silicone

IT Polysiloxanes, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (Me Ph; simultaneous spray-type **hair dye** cream compns. having conditioning effect, containing amphoteric polymers)

IT Polysiloxanes, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (acrylic; simultaneous spray-type **hair dye** cream compns. having conditioning effect, containing amphoteric polymers)

IT Alcohols, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (aliphatic, silicones modified with; simultaneous spray-type **hair dye** cream compns. having conditioning effect, containing amphoteric polymers)

IT Polysiloxanes, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (alkyl; simultaneous spray-type **hair dye** cream compns. having conditioning effect, containing amphoteric polymers)

IT Polysiloxanes, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (amino-containing; simultaneous spray-type **hair dye** cream compns. having conditioning effect, containing amphoteric polymers)

IT Hair preparations

(bleaches, cream aerosol sprays; simultaneous spray-type **hair dye** cream compns. having conditioning effect, containing amphoteric

- polymers)
- IT **Hair preparations**  
(dyes, oxidative, cream aerosol sprays; simultaneous spray-type **hair dye** cream compns. having conditioning effect, containing amphoteric polymers)
- IT Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(epoxy; simultaneous spray-type **hair dye** cream compns. having conditioning effect, containing amphoteric polymers)
- IT Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(polyoxyalkylene-, fluorine-containing, perfluoroalkyl; simultaneous spray-type **hair dye** cream compns. having conditioning effect, containing amphoteric polymers)
- IT Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(polyoxyalkylene-; simultaneous spray-type **hair dye** cream compns. having conditioning effect, containing amphoteric polymers)
- IT Fluoropolymers, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(polyoxyalkylene-siloxane-, perfluoroalkyl; simultaneous spray-type **hair dye** cream compns. having conditioning effect, containing amphoteric polymers)
- IT Acrylic polymers, biological studies  
Epoxy resins, biological studies  
Polyoxyalkylenes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(polysiloxane-; simultaneous spray-type **hair dye** cream compns. having conditioning effect, containing amphoteric polymers)
- IT Fatty acids, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(silicones modified with; simultaneous spray-type **hair dye** cream compns. having conditioning effect, containing amphoteric polymers)
- IT Polyoxyalkylenes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(siloxane-, fluorine-containing, perfluoroalkyl; simultaneous spray-type **hair dye** cream compns. having conditioning effect, containing amphoteric polymers)
- IT Human  
Oxidizing agents  
(simultaneous spray-type **hair dye** cream compns. having conditioning effect, containing amphoteric polymers)
- IT Bases, biological studies  
Cyclosiloxanes  
Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(simultaneous spray-type **hair dye** cream compns. having conditioning effect, containing amphoteric polymers)
- IT 31900-57-9, Dimethylsilanediol homopolymer  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(assumed monomers; simultaneous spray-type **hair dye** cream compns. having conditioning effect, containing amphoteric polymers)
- IT 1336-21-6, Ammonium hydroxide 7722-84-1, Hydrogen peroxide, biological studies 9016-00-6, Dimethylsilanediol homopolymer, sru  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(simultaneous spray-type **hair dye** cream compns. having conditioning effect, containing amphoteric polymers)
- IT 31900-57-9, Dimethylsilanediol homopolymer  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(assumed monomers; simultaneous spray-type **hair dye**  
cream compns. having conditioning effect, containing amphoteric polymers)

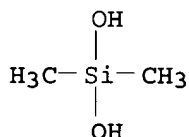
RN 31900-57-9 HCAPLUS

CN Silanediol, dimethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 1066-42-8

CMF C2 H8 O2 Si



IT 9016-00-6, Dimethylsilanediol homopolymer, sru

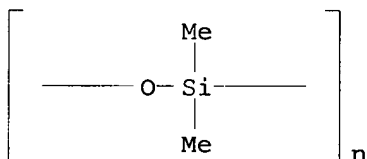
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(simultaneous spray-type **hair dye** cream compns.

having conditioning effect, containing amphoteric polymers)

RN 9016-00-6 HCAPLUS

CN Poly[oxy(dimethylsilylene)] (8CI, 9CI) (CA INDEX NAME)



L34 ANSWER 24 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:179966 HCAPLUS

DN 140:204801

TI Hair preparations containing polysiloxanes and cyclosiloxanes

IN Nagai, Hidetaka; Takayama, Aimi

PA Hoyu Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 15 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE     |
|------|----------------|------|----------|-----------------|----------|
| PI   | JP 2004067652  | A2   | 20040304 | JP 2002-232945  | 20020809 |
| PRAI | JP 2002-232945 |      | 20020809 |                 |          |

AB This invention relates to **hair dyes** and bleaches which comprise (1) **cyclosiloxanes**, (2) **amino-modified silicones**, (3) highly polymerized methylpolysiloxanes, and/or (4) highly polymerized **amino-modified silicones** to provide smooth hair after treatment. The hair prepns. may further comprise amphoteric polymers and/or cationic polymers. For example, a **hair dye** preparation comprised (1) component A containing p-phenylenediamine 1, resorcin 1, ammonia water (28 %) 2, monoethanolamine (80 %) 6, cetostearyl alc. 6, polyoxyethylene cetyl ether 4, polyethylene glycol 5, decamethylcyclopentasiloxane 1.5, aminoethylaminopropylsiloxa

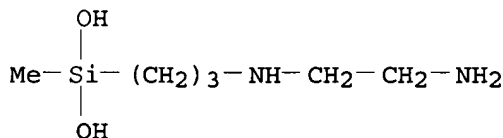
ne-dimethylsiloxane copolymer 1.5, methylpolysiloxane 0.2, acrylamide-acrylic acid-dimethyldiallylammonium chloride copolymer 1, and distilled water balance to 100 %; and (2) component B containing H2O2 (35 %solution) 17, cetostearyl alc. 2, polyoxyethylene cetyl ether 0.5, stearyltrimethylammonium chloride 1, sodium stannate 0.1, phosphoric acid q.s. to pH 3.5, and distilled water balance to 100 %.

IC ICM A61K007-06  
ICS A61K007-13; A61K007-135  
CC 62-3 (Essential Oils and Cosmetics)  
ST hair dye bleach amino contg  
polysiloxane cyclosiloxane  
IT Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(Me; hair dyes and bleaches containing polysiloxanes and cyclosiloxanes and conditioning polymers)  
IT Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(amino-containing; hair dyes and bleaches containing polysiloxanes and cyclosiloxanes and conditioning polymers)  
IT Hair preparations  
(bleaches; hair dyes and bleaches containing polysiloxanes and cyclosiloxanes and conditioning polymers)  
IT Hair preparations  
(dyes; hair dyes and bleaches containing polysiloxanes and cyclosiloxanes and conditioning polymers)  
IT Cyclosiloxanes  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(hair dyes and bleaches containing polysiloxanes and cyclosiloxanes and conditioning polymers)  
IT 541-02-6, Decamethylcyclopentasiloxane 25136-75-8, Acrylamide-acrylic acid-dimethyldiallylammonium chloride copolymer 156623-21-1 333974-49-5  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(hair dyes and bleaches containing polysiloxanes and cyclosiloxanes and conditioning polymers)  
IT 156623-21-1  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(hair dyes and bleaches containing polysiloxanes and cyclosiloxanes and conditioning polymers)  
RN 156623-21-1 HCAPLUS  
CN Silanediol, [3-[(2-aminoethyl)amino]propyl]methyl-, polymer with dimethylsilanediol (9CI) (CA INDEX NAME)

CM 1

CRN 83145-66-8

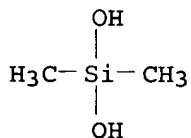
CMF C6 H18 N2 O2 Si



CM 2

CRN 1066-42-8

CMF C2 H8 O2 Si



L34 ANSWER 25 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:97552 HCAPLUS

DN 140:151576

TI Hair dyes containing polyvalent metal ions

IN Ochiai, Masatoshi; Kawazoe, Tomoyuki; Shibata, Kazuya; Yamashita, Takahiro; Kobe, Tetsuya

PA Shiseido Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 26 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE     |
|------|----------------|------|----------|-----------------|----------|
| PI   | JP 2004035493  | A2   | 20040205 | JP 2002-196196  | 20020704 |
| PRAI | JP 2002-196196 |      | 20020704 |                 |          |

AB The dyes, which show improved hair dyeing power and color retention, contain neutral, nonionic, and/or basic dyes and polyvalent metal ions. A hair dye was prepared from 2-alkyl-N-carboxymethyl-N-hydroxyethylimidazolium betaine 2.0, isostearic acid 0.5, HC Blue Number 2 0.1, Basic Blue Number 99 0.1, HC Yellow Number 4 0.1, liquid paraffin 35.0, cetyl 2-ethylhexanoate 3.0, glycerin 5.0, perfume 0.2, H3PO4 0.05, Na2HPO4 0.5, AlCl3 1.0, H2O to 100 weight%.

IC ICM A61K007-13

ICS D06P001-651; D06P001-673; D06P003-04

CC 62-3 (Essential Oils and Cosmetics)

ST hair dye polyvalent metal ion; neutral dye hair polyvalent metal ion; nonionic dye hair polyvalent metal ion; basic dye hair polyvalent metal ion

IT Hair preparations

(dyes; hair dyes containing neutral, nonionic, or basic dyes, polyvalent metal ions, and optional acids and polysiloxanes)

IT Human

(hair dyes containing neutral, nonionic, or basic dyes, polyvalent metal ions, and optional acids and polysiloxanes)

IT Acids, biological studies

Polysiloxanes, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(hair dyes containing neutral, nonionic, or basic dyes, polyvalent metal ions, and optional acids and polysiloxanes)

IT Metals, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(polyvalent; hair dyes containing neutral, nonionic, or basic dyes, polyvalent metal ions, and optional acids and polysiloxanes)

IT 61968-11-4, Basic Black 9

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(Basic Black 9; hair dyes containing neutral, nonionic, or basic

**dyes**, polyvalent metal ions, and optional acids and polysiloxanes)

IT 81612-54-6  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (HC Orange 3; hair **dyes** containing neutral, nonionic, or basic **dyes**, polyvalent metal ions, and optional acids and polysiloxanes)

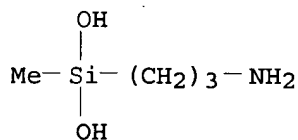
IT 50-21-5, Lactic acid, biological studies 72-17-3, Sodium lactate  
 77-92-9, Citric acid, biological studies 79-14-1, Glycolic acid, biological studies 87-69-4, Tartaric acid, biological studies 632-99-5, Basic Violet 14 2475-45-8, Disperse Blue 1 2784-89-6, HC Red 1 3179-90-6, Disperse Blue 7 4208-80-4, Basic Yellow 11 6358-09-4, 2-Amino-6-chloro-4-nitrophenol 7446-70-0, Aluminum chloride, biological studies 7558-79-4, Disodium hydrogen phosphate 7664-38-2, Phosphoric acid, biological studies 7720-78-7 7786-30-3, Magnesium chloride, biological studies 8005-78-5, Basic Brown 4 9006-65-9, Dimethicone 10043-52-4, Calcium chloride, biological studies 10442-83-8, HC Yellow Number 13 12221-52-2, Basic Red 22 20721-50-0, Disperse Black 9 26381-41-9, Basic Brown 16 31900-57-9D, Dimethylsilanediol homopolymer, trimethylsilyl-terminated 33229-34-4, HC Blue 2 42557-10-8 54381-08-7, HC Orange 1 59820-43-8, HC Yellow 4 68123-13-7, Basic Blue 99 68391-30-0, Basic Red 76 68391-31-1, Basic Yellow 57 85765-48-6, HC Orange Number 2 90349-40-9, HC Yellow Number 14 95576-89-9, HC Red 10 158465-66-8, 3-Aminopropylmethylsilanediol-dimethylsilanediol copolymer 166377-62-4, HC Blue Number 8  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hair **dyes** containing neutral, nonionic, or basic **dyes**, polyvalent metal ions, and optional acids and polysiloxanes)

IT 158465-66-8, 3-Aminopropylmethylsilanediol-dimethylsilanediol copolymer  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hair **dyes** containing neutral, nonionic, or basic **dyes**, polyvalent metal ions, and optional acids and polysiloxanes)

RN 158465-66-8 HCAPLUS  
 CN Silanediol, (3-aminopropyl)methyl-, polymer with dimethylsilanediol (9CI)  
 (CA INDEX NAME)

CM 1

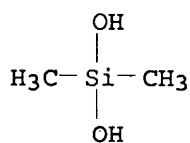
CRN 158465-65-7  
 CMF C4 H13 N O2 Si



CM 2

CRN 1066-42-8  
 CMF C2 H8 O2 Si





L34 ANSWER 26 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:76448 HCAPLUS

DN 140:151570

TI **Hair dye** compositions containing alkyl-modified carboxyvinyl polymer

IN Yamashita, Takahiro; Shibata, Kazuya; Ochiai, Masatoshi; Kobe, Tetsuya

PA Shiseido Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 24 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE     |
|------|----------------|------|----------|-----------------|----------|
| PI   | JP 2004026690  | A2   | 20040129 | JP 2002-183127  | 20020624 |
| PRAI | JP 2002-183127 |      | 20020624 |                 |          |

AB The invention relates to a **hair dye** composition providing excellent **dyeing** effect and improved **hair touch** feeling without causing skin stain, wherein the **hair dye** composition is characterized by containing basic, nonionic, and/or neutral **dye** component and alkyl-modified carboxyvinyl polymer. A **hair dye** composition containing HC Blue 2 0.1, Steel Blue 0.1, HC Yellow 4 0.1, ethanol 16, propylene glycol 5, Pemulen TR-1 1, carboxyvinyl polymer 0.4, trimethylsilyl-terminated dimethylpolysiloxane 13, citric acid 0.5, isoparaffin 2, liquid paraffin 2, hydroxyethyl cellulose 2, and water balance to 100 % was formulated.

IC ICM A61K007-13

ICS D06P001-52; D06P001-613; D06P003-04

CC 62-3 (Essential Oils and **Cosmetics**)

ST alkyl carboxyvinyl polymer **hair dye**

IT **Polysiloxanes**, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(**aminoalkyl** di-Me; **hair dye** compns.

containing **dyes**, alkyl-modified carboxyvinyl polymers and polysiloxanes)

IT Vinyl compounds, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(carboxy-containing, polymers; **hair dye** compns. containing **dyes**, and alkyl-modified carboxyvinyl polymers)

IT Polyoxyalkylenes, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(di-Me polysiloxane-, graft; **hair dye** compns.

containing **dyes**, alkyl-modified carboxyvinyl polymers and polysiloxanes)

IT Polysiloxanes, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(di-Me, polyoxyalkylene-, graft; **hair dye** compns.

containing **dyes**, alkyl-modified carboxyvinyl polymers and polysiloxanes)

IT Polysiloxanes, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (di-Me; hair dye compns. containing dyes,  
 alkyl-modified carboxyvinyl polymers and polysiloxanes)

IT Hair preparations  
 (dyes; hair dye compns. containing  
 dyes, and alkyl-modified carboxyvinyl polymers)

IT Human  
 (hair dye compns. containing dyes, and  
 alkyl-modified carboxyvinyl polymers)

IT 156549-36-9D, trimethylsilyl-terminated, C1-12-alkyl ethers  
 158465-66-8D, trimethylsilyl-terminated  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (assumed monomers; hair dye compns. containing  
 dyes, alkyl-modified carboxyvinyl polymers and polysiloxanes)

IT 31900-57-9D, Dimethylsilanediol homopolymer, trimethylsilyl-  
 terminated 42557-10-8, Dimethyl siloxane, trimethylsilyl-terminated  
 156048-35-0D, Dimethylsilanediol-Methylphenylsilanediol copolymer,  
 trimethylsilyl-terminated  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hair dye compns. containing dyes,  
 alkyl-modified carboxyvinyl polymers and polysiloxanes)

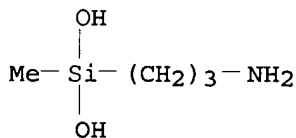
IT 2784-89-6, HC Red 1 6358-09-4, 2-Amino-6-chloro-4-nitrophenol  
 20721-50-0, Disperse Black 9 26381-41-9, Basic Brown 16 33229-34-4, HC  
 Blue 2 59820-43-8, HC Yellow 4 68391-31-1, Basic Yellow 57  
 81612-54-6, HC Orange Number 3 96827-24-6, Carbopol 1342 138789-85-2,  
 Pemulen TR-1 145687-02-1, Pemulen TR-2  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hair dye compns. containing dyes, and  
 alkyl-modified carboxyvinyl polymers)

IT 158465-66-8D, trimethylsilyl-terminated  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (assumed monomers; hair dye compns. containing  
 dyes, alkyl-modified carboxyvinyl polymers and polysiloxanes)

RN 158465-66-8 HCAPLUS  
 CN Silanediol, (3-aminopropyl)methyl-, polymer with dimethylsilanediol (9CI)  
 (CA INDEX NAME)

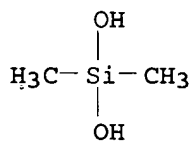
CM 1

CRN 158465-65-7  
 CMF C4 H13 N O2 Si



CM 2

CRN 1066-42-8  
 CMF C2 H8 O2 Si



IT 31900-57-9D, Dimethylsilanediol homopolymer, trimethylsilyl-terminated

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(hair dye compns. containing dyes,  
alkyl-modified carboxyvinyl polymers and polysiloxanes)

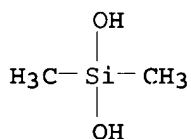
RN 31900-57-9 HCAPLUS

CN Silanediol, dimethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 1066-42-8

CMF C2 H8 O2 Si



L34 ANSWER 27 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2003:851101 HCAPLUS

DN 139:354140

TI Fiber treatment blend containing organomodified silicones with defined hydrophilicity range

IN Glenn, Robert Wayne; McMeekin, Anthony; Godfrey, Simon Paul; Boumard, Coralie Claude Monique; Bureiko, Andrei Sergeevich

PA The Procter & Gamble Company, USA

SO Eur. Pat. Appl., 28 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 2

|    | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|----|---|------|----------|-----------------|----------|
| PI | EP 1356803  | A1   | 20031029 | EP 2003-252205  | 20030408 |
|    | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK   |      |          |                 |          |
|    | US 2003211064   | A1   | 20031113 | US 2003-409376  | 20030408 |
|    | US 2003219396   | A1   | 20031127 | US 2003-409426  | 20030408 |
|    | CA 2482480  | AA   | 20031030 | CA 2003-2482480 | 20030422 |
|    | CA 2496689  | AA   | 20031030 | CA 2003-2496689 | 20030422 |
|    | WO 2003088936   | A1   | 20031030 | WO 2003-US13564 | 20030422 |
|    | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW |      |          |                 |          |
|    | RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,   |      |          |                 |          |

KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

WO 2003088937 A1 20031030 WO 2003-US13565 20030422

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

JP 2005524686 T2 20050818 JP 2003-585689 20030422

JP 2005526110 T2 20050902 JP 2003-585690 20030422

PRAI GB 2002-9131 A 20020422

WO 2003-US13564 W 20030422

WO 2003-US13565 W 20030422

AB A hair treatment composition is presented comprising a blend of organomodified silicones which deposits more evenly and durably than prior art conditioners on hair of different of damage. This is achieved by operating with organomodified silicones within a defined hydrophilicity range. An after-colorant hair conditioners was prepared from cetyl alc. 2.25, stearyl alc. 2.25, ceteareth-25 1.5, phenoxyethanol 0.11, sodium benzoate 0.09, tetrasodium EDTA 0.04, citric acid anhydrous fine q.s., **aminofunctional polydimethylsiloxane** (Belsil ADM 1100) 2.5, **aminofunctional silicone** 2.5, and water balance to 100 %.

IC ICM A61K007-06

ICS D06M015-643

CC 62-3 (Essential Oils and Cosmetics)

IT **Polysiloxanes**, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(3-**aminopropyl** Me, di-Me, 3-hydroxypropyl Me, ethers with polyethylene-polypropylene glycol mono-Me ether, citrates (salts), Belsil ADM 1100; hair treatment blend containing organomodified silicones with defined hydrophilicity range and surfactants)

IT **Polysiloxanes**, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(**amino**; hair treatment blend containing organomodified silicones with defined hydrophilicity range and surfactants)

IT **Hair preparations**  
(**dyes**; fiber treatment blend containing organomodified silicones with defined hydrophilicity range)

IT 112-92-5, Stearyl alcohol 36653-82-4, Cetyl alcohol **226414-55-7D**, TMS-terminated

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(**hair** treatment blend containing organomodified silicones with defined hydrophilicity range and surfactants)

IT **226414-55-7D**, TMS-terminated

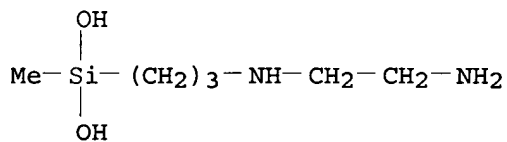
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(**hair** treatment blend containing organomodified silicones with defined hydrophilicity range and surfactants)

RN 226414-55-7 HCAPLUS

CN Silanediol, [3-[(2-aminoethyl)amino]propyl]methyl-, polymer with dimethylsilanediol, methyloxirane, methylsilanediol and oxirane, graft (9CI) (CA INDEX NAME)

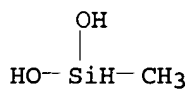
CM 1

CRN 83145-66-8  
CMF C6 H18 N2 O2 Si



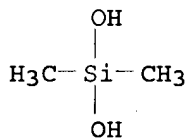
CM 2

CRN 43641-90-3  
CMF C H6 O2 Si



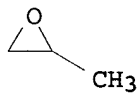
CM 3

CRN 1066-42-8  
CMF C2 H8 O2 Si



CM 4

CRN 75-56-9  
CMF C3 H6 O



CM 5

CRN 75-21-8  
CMF C2 H4 O



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L34 ANSWER 28 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN  
AN 2003:851099 HCAPLUS  
DN 139:341429  
TI Fiber treatment compositions containing organomodified silicone polymers  
IN Glenn, Robert Wayne; Godfrey, Simon Paul; McMeekin, Anthony; Angelino, Stefania  
PA The Procter & Gamble Company, USA  
SO Eur. Pat. Appl., 26 pp.  
CODEN: EPXXDW  
DT Patent  
LA English  
FAN.CNT 1

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|---|------|----------|-----------------|----------|
| EP 1356801  | A1   | 20031029 | EP 2003-252201  | 20030408 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK   |      |          |                 |          |
| US 2003215411   | A1   | 20031120 | US 2003-409316  | 20030408 |
| WO 2003088938   | A1   | 20031030 | WO 2003-US13566 | 20030422 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW |      |          |                 |          |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  |      |          |                 |          |
| EP 1496841  | A1   | 20050119 | EP 2003-721977  | 20030422 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK   |      |          |                 |          |
| JP 2005524687   | T2   | 20050818 | JP 2003-585691  | 20030422 |
| PRAI GB 2002-9135   | A    | 20020422 |                 |          |
| WO 2003-US13566   | W    | 20030422 |                 |          |

AB A fiber treatment composition is presented comprising organomodified silicones which deposit more evenly and durably than prior art conditioners on a variety of fibers, especially hair, of differing levels of damage. This is achieved by operating with organomodified silicones within a defined hydrophilicity range. A hair colorant composition containing cetyl alc. 2.2, stearyl alc. 2.2, cetareth-25 1.47, phenoxyethanol 0.11, sodium benzoate 0.09, tetrasodium EDTA 0.04, pentasodium pentetate 0.24, hydroxyethane diphosphonic acid 0.16, phosphoric acid 0.08, sodium stannate 0.04, hydrogen peroxide 16.8, an organomodified silicone  $\text{Me}_3\text{Si}[\text{OSi}(\text{Me})_2]_{500}[\text{OSi}(\text{Me})[(\text{CH}_2)_3\text{NH}(\text{CH}_2)_2\text{NH}_2]]_8[\text{OSi}(\text{Me})[(\text{CH}_2)_3(\text{OC}_2\text{H}_4)_2]_{15}(\text{OC}_3\text{H}_6)_2]_{15}\text{OH}]_{40}\text{SiMe}_3$  2, and water balance to 100 % was formulated.

IC ICM A61K007-06  
ICS D06M015-647

CC 62-3 (Essential Oils and Cosmetics)

IT Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(amino; hair treatment blend containing organomodified silicones with defined interfacial tension range)

IT Hair preparations  
(dyes; hair treatment blend containing organomodified silicones with defined interfacial tension range)

IT 226414-55-7D, TMS-terminated  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(hair treatment blend containing organomodified silicones with  
defined interfacial tension range)

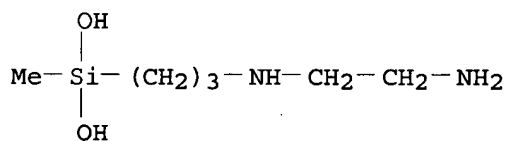
IT 226414-55-7D, TMS-terminated  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(hair treatment blend containing organomodified silicones with  
defined interfacial tension range)

RN 226414-55-7 HCAPLUS

CN Silanediol, [3-[(2-aminoethyl)amino]propyl]methyl-, polymer with  
dimethylsilanediol, methyloxirane, methylsilanediol and oxirane, graft  
(9CI) (CA INDEX NAME)

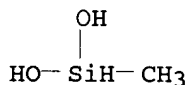
CM 1

CRN 83145-66-8  
CMF C6 H18 N2 O2 Si



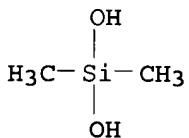
CM 2

CRN 43641-90-3  
CMF C H6 O2 Si



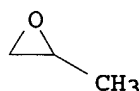
CM 3

CRN 1066-42-8  
CMF C2 H8 O2 Si



CM 4

CRN 75-56-9  
CMF C3 H6 O



CM 5

CRN 75-21-8

CMF C2 H4 O



RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L34 ANSWER 29 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN  
AN 2003:851098 HCAPLUS  
DN 139:354138  
TI Durable fiber treatment compositions containing organomodified silicones  
IN Glenn, Robert Wayne; McMeekin, Antony; Godfrey, Simon Paul; Boumard,  
Coralie Claude Monique; Dring, Neil Charles  
PA The Procter & Gamble Company, USA  
SO Eur. Pat. Appl., 24 pp.  
CODEN: EPXXDW  
DT Patent  
LA English  
FAN.CNT 2

|    | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|----|---|------|----------|-----------------|----------|
| PI | EP 1356800  | A2   | 20031029 | EP 2003-252200  | 20030408 |
|    | EP 1356800  | A3   | 20040121 |                 |          |
|    | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK   |      |          |                 |          |
|    | US 2003211953   | A1   | 20031113 | US 2003-409315  | 20030408 |
|    | US 2003223946   | A1   | 20031204 | US 2003-409313  | 20030408 |
|    | CA 2483443  | AA   | 20031106 | CA 2003-2483443 | 20030422 |
|    | WO 2003090508   | A2   | 20031106 | WO 2003-US12269 | 20030422 |
|    | WO 2003090508   | A3   | 20041209 |                 |          |
|    | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW |      |          |                 |          |
|    | RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  |      |          |                 |          |
|    | WO 2003090510   | A2   | 20031106 | WO 2003-US12472 | 20030422 |
|    | WO 2003090510   | A3   | 20041209 |                 |          |
|    | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT,                                |      |          |                 |          |



TZ, UA, UG, UZ, VN, YU, ZA, ZW  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

JP 2005524691 T2 20050818 JP 2003-587160 20030422  
 JP 2005527595 T2 20050915 JP 2003-587158 20030422

PRAI GB 2002-9485 A 20020425  
 WO 2003-US12269 W 20030422  
 WO 2003-US12472 W 20030422

AB A fiber treatment composition is presented comprising organomodified silicones having defined physico-chemical properties and an additive which allows the organomodified silicone to be retained on the hair over longer periods of time than traditionally has been the case. The present composition finds particular application on hair that has been damaged through chemical treatments, such as occurs during permanent **dyeing**, bleaching and permanent waving. A hair colorant composition containing cetyl alc., stearyl alc., cetareth-25, phenoxyethanol, sodium benzoate, tetrasodium EDTA, pentasodium pentetate, hydroxyethane diphosphonic acid, phosphoric acid, sodium stannate, hydrogen peroxide, a MQ resin (SR 1000), **amino**-polyether functional **silicone** fluid (XS 69-B5476), acetic acid, ammonium hydroxide, and water was formulated.

IC ICM A61K007-06  
 ICS D06P003-14

CC 62-3 (Essential Oils and **Cosmetics**)

IT **Polysiloxanes**, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (**amino**, Rhodorsil 21637, XS 69B5476; hair treatment blend containing organomodified silicones with defined physicochem. properties and additives)

IT **Hair** preparations  
 (**dyes**; hair treatment blend containing organomodified silicones with defined physicochem. properties and additives)

IT 112-92-5, Stearyl alcohol 36653-82-4, Cetyl alcohol 56275-01-5, SR 1000 **226414-55-7D**, TMS-terminated  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (**hair** treatment blend containing organomodified silicones with defined physicochem. properties and additives)

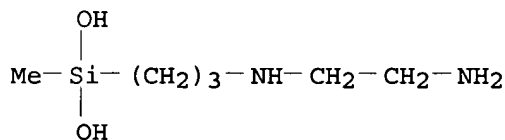
IT **226414-55-7D**, TMS-terminated  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (**hair** treatment blend containing organomodified silicones with defined physicochem. properties and additives)

RN 226414-55-7 HCAPLUS

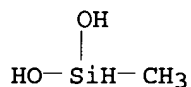
CN Silanediol, [3-[(2-aminoethyl)amino]propyl]methyl-, polymer with dimethylsilanediol, methyloxirane, methylsilanediol and oxirane, graft (9CI) (CA INDEX NAME)

CM 1

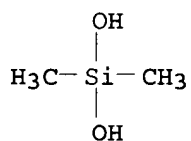
CRN 83145-66-8  
 CMF C6 H18 N2 O2 Si



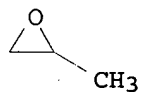
CM 2

CRN 43641-90-3  
CMF C H6 O2 Si

CM 3

CRN 1066-42-8  
CMF C2 H8 O2 Si

CM 4

CRN 75-56-9  
CMF C3 H6 O

CM 5

CRN 75-21-8  
CMF C2 H4 O

L34 ANSWER 30 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN  
AN 2003:783114 HCAPLUS  
DN 139:280903  
TI Hair pretreatment agents containing aluminum compounds and silicones for  
hair dyeing  
IN Kitano, Hiroki  
PA Hoyu Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 5 pp.  
CODEN: JKXXAF  
DT Patent

LA Japanese

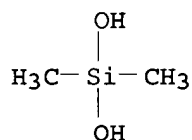
FAN.CNT 1

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|------|---|------|----------|-----------------|----------|
| PI   | JP 2003286143   | A2   | 20031007 | JP 2002-93883   | 20020329 |
| PRAI | JP 2002-93883   |      | 20020329 |                 |          |
| AB   | The agents, useful for improvement of dyeing effect on damaged hairs, contain Al compds. and silicones. A pretreatment agent was prepared from K Al sulfate 5, amino-modified silicone 2, lauryltrimethylammonium chloride 0.7, cetanol 2.5, dipropylene glycol 3.0, methylparaben 0.2, monoethanolamine, perfume 0.1, and H2O to 100%. |      |          |                 |          |
| IC   | ICM A61K007-13  |      |          |                 |          |
|      | ICS A61K007-06  |      |          |                 |          |
| CC   | 62-3 (Essential Oils and Cosmetics)   |      |          |                 |          |
| ST   | hair dye pretreatment aluminum compd silicone   |      |          |                 |          |
| IT   | Polysiloxanes, biological studies   |      |          |                 |          |
|      | RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  |      |          |                 |          |
|      | (amino; hair dye pretreatment agents  |      |          |                 |          |
|      | containing Al compds., silicones, and protein hydrolyzates)   |      |          |                 |          |
| IT   | Hair preparations   |      |          |                 |          |
|      | (dyes; hair dye pretreatment agents   |      |          |                 |          |
|      | containing Al compds., silicones, and protein hydrolyzates)   |      |          |                 |          |
| IT   | Human   |      |          |                 |          |
|      | (hair dye pretreatment agents containing Al compds.,  |      |          |                 |          |
|      | silicones, and protein hydrolyzates)  |      |          |                 |          |
| IT   | Polysiloxanes, biological studies   |      |          |                 |          |
|      | RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  |      |          |                 |          |
|      | (hair dye pretreatment agents containing Al compds.,  |      |          |                 |          |
|      | silicones, and protein hydrolyzates)  |      |          |                 |          |
| IT   | Collagens, biological studies   |      |          |                 |          |
|      | Keratins  |      |          |                 |          |
|      | RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  |      |          |                 |          |
|      | (hydrolyzates; hair dye pretreatment agents containing  |      |          |                 |          |
|      | Al compds., silicones, and protein hydrolyzates)  |      |          |                 |          |
| IT   | Polysiloxanes, biological studies   |      |          |                 |          |
|      | RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  |      |          |                 |          |
|      | (polyether-; hair dye pretreatment agents containing Al   |      |          |                 |          |
|      | compds., silicones, and protein hydrolyzates)   |      |          |                 |          |
| IT   | Polyethers, biological studies  |      |          |                 |          |
|      | RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  |      |          |                 |          |
|      | (siloxane-; hair dye pretreatment agents containing Al  |      |          |                 |          |
|      | compds., silicones, and protein hydrolyzates)   |      |          |                 |          |
| IT   | Protein hydrolyzates  |      |          |                 |          |
|      | RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  |      |          |                 |          |
|      | (wheat; hair dye pretreatment agents containing Al  |      |          |                 |          |
|      | compds., silicones, and protein hydrolyzates)   |      |          |                 |          |
| IT   | 31900-57-9, Dimethylsilanediol homopolymer  |      |          |                 |          |
|      | RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  |      |          |                 |          |
|      | (assumed monomers; hair dye pretreatment agents   |      |          |                 |          |
|      | containing Al compds., silicones, and protein hydrolyzates)   |      |          |                 |          |
| IT   | 7446-70-0, Aluminum chloride, biological studies 9016-00-6,   |      |          |                 |          |
|      | Dimethylsilanediol homopolymer, sru 15007-61-1, Aluminum potassium  |      |          |                 |          |
|      | sulfate   |      |          |                 |          |
|      | RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  |      |          |                 |          |
|      | (hair dye pretreatment agents containing Al compds.,  |      |          |                 |          |
|      | silicones, and protein hydrolyzates)  |      |          |                 |          |
| IT   | 31900-57-9, Dimethylsilanediol homopolymer  |      |          |                 |          |
|      | RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  |      |          |                 |          |
|      | (assumed monomers; hair dye pretreatment agents   |      |          |                 |          |
|      | containing Al compds., silicones, and protein hydrolyzates)   |      |          |                 |          |

RN 31900-57-9 HCAPLUS  
CN Silanediol, dimethyl-, homopolymer (9CI) (CA INDEX NAME)

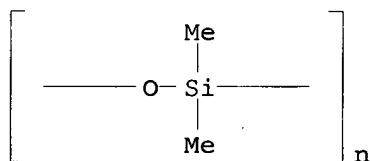
CM 1

CRN 1066-42-8  
CMF C2 H8 O2 Si



IT 9016-00-6, Dimethylsilanediol homopolymer, sru  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(hair dye pretreatment agents containing Al compds.,  
silicones, and protein hydrolyzates)

RN 9016-00-6 HCAPLUS  
CN Poly[oxy(dimethylsilylene)] (8CI, 9CI) (CA INDEX NAME)



L34 ANSWER 31 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN  
AN 2003:777549 HCAPLUS  
DN 139:280900  
TI Polysiloxane compositions and their use in cosmetics  
IN Elder, Stewart Todd; Rocafort, Colleen; Schwenker, Claire A.; Chrobaczek,  
Harald  
PA Ciba Specialty Chemicals Holding Inc., Switz.  
SO PCT Int. Appl., 27 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

|            | PATENT NO.  | KIND     | DATE     | APPLICATION NO. | DATE     |
|------------|---|----------|----------|-----------------|----------|
| PI         | WO 2003080007   | A1       | 20031002 | WO 2003-EP2617  | 20030313 |
|            | W:  |          |          |                 |          |
|            | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, |          |          |                 |          |
|            | CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, |          |          |                 |          |
|            | GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, |          |          |                 |          |
|            | LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, |          |          |                 |          |
|            | PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, |          |          |                 |          |
|            | TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW                      |          |          |                 |          |
|            | RW:   |          |          |                 |          |
|            | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, |          |          |                 |          |
|            | KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, |          |          |                 |          |
|            | FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, |          |          |                 |          |
|            | BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  |          |          |                 |          |
| EP 1487398 | A1  | 20041222 |          | EP 2003-714820  | 20030313 |
|            | R:  |          |          |                 |          |
|            | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, |          |          |                 |          |

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

|               |    |          |                |          |
|---------------|----|----------|----------------|----------|
| BR 2003008602 | A  | 20050209 | BR 2003-8602   | 20030313 |
| US 2005169878 | A1 | 20050804 | US 2003-508441 | 20030313 |
| JP 2005528360 | T2 | 20050922 | JP 2003-577838 | 20030313 |

PRAI US 2002-366311P P ~~20020321~~

WO 2003-EP2617 W 20030313

AB Compns. containing 0.1-30% polyorganosiloxanes having at least one quaternary group comprising at least one nitrogen atom, and at least one further polar radical, and their use in cosmetics, in particular for the conditioning of hair, are described. The polyorganosiloxane is present in the form of a solution or dispersion at the concentration of 0.1-30% in a diluent selected from an organic solvent, water, and an aqueous emulsion comprising water and an oil-in-water type surfactant.

IC ICM A61K007-075

CC 62-3 (Essential Oils and Cosmetics)

Section cross-reference(s): 35

IT Hair preparations  
(dyes, oxidative; preparation of quaternary ammonium group-containing polysiloxanes for hair conditioning)

IT Hair preparations  
(dyes; preparation of quaternary ammonium group-containing polysiloxanes for hair conditioning)

IT 556-67-2DP, polymers with dimethoxymethylsilylpropylaminoethylamine and Tegopren 5878, quaternized 3069-29-2DP, polymers with octamethylcyclotetrasiloxane and Tegopren 5878, quaternized 606968-75-6DP, quaternized derivs. 606968-76-7DP, quaternized derivs.  
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of quaternary ammonium group-containing polysiloxanes for hair conditioning)

IT 606968-75-6DP, quaternized derivs. 606968-76-7DP, quaternized derivs.  
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of quaternary ammonium group-containing polysiloxanes for hair conditioning)

RN 606968-75-6 HCAPLUS

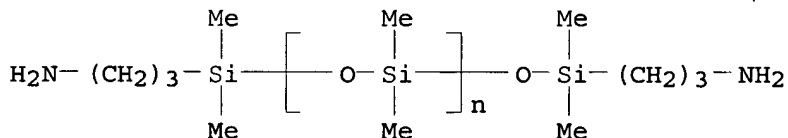
CN 1,2-Ethanediamine, N-[3-(dimethoxymethylsilyl)propyl]-, polymer with  $\alpha$ -[(3-aminopropyl)dimethylsilyl]- $\omega$ -[[3-aminopropyl)dimethylsilyl]oxy]poly[oxy(dimethylsilylene)] and octamethylcyclotetrasiloxane (9CI) (CA INDEX NAME)

CM 1

CRN 97917-34-5

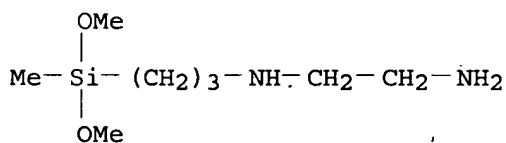
CMF (C2 H6 O Si)<sub>n</sub> C10 H28 N2 O Si2

CCI PMS



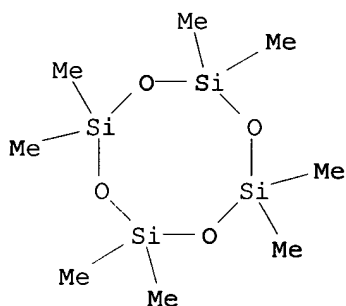
CM 2

CRN 3069-29-2  
CMF C8 H22 N2 O2 Si



CM 3

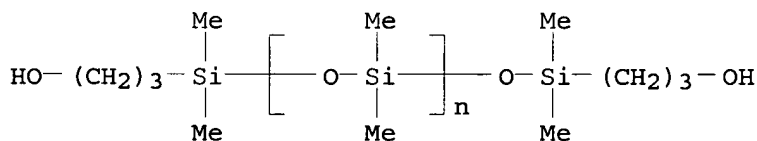
CRN 556-67-2  
CMF C8 H24 O4 Si4



RN 606968-76-7 HCAPLUS  
CN 1,2-Ethanediamine, N-[3-(dimethoxymethylsilyl)propyl]-, polymer with  $\alpha$ -[(3-hydroxypropyl)dimethylsilyl]- $\omega$ -[[3-hydroxypropyl)dimethylsilyl]oxypoly[oxy(dimethylsilylene)] and octamethylcyclotetrasiloxane (9CI) (CA INDEX NAME)

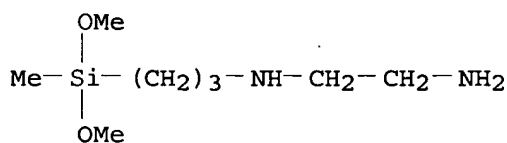
CM 1

CRN 58130-02-2  
CMF (C2 H6 O Si)<sub>n</sub> C10 H26 O3 Si2  
CCI PMS



CM 2

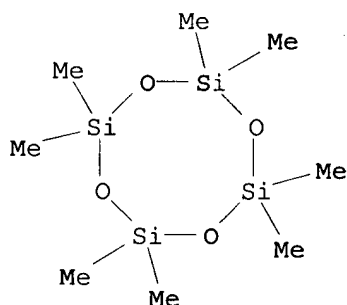
CRN 3069-29-2  
CMF C8 H22 N2 O2 Si



CM 3

CRN 556-67-2

CMF C8 H24 O4 Si4



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

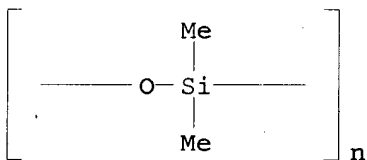
L34 ANSWER 32 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN  
AN 2003:627921 HCAPLUS  
DN 139:168996  
TI Method for **dyeing hair** using organopolysiloxanes  
IN Noecker, Bernd; Ghiasi, Fariba  
PA KPSS-Kao Professional Salon Services G.m.b.H., Germany  
SO Ger. Offen., 8 pp.  
CODEN: GWXXBX  
DT Patent  
LA German  
FAN.CNT 1

|      | PATENT NO.       | KIND | DATE     | APPLICATION NO.  | DATE     |
|------|------------------|------|----------|------------------|----------|
| PI   | DE 10205529      | A1   | 20030814 | DE 2002-10205529 | 20020211 |
| PRAI | DE 2002-10205529 |      | 20020211 |                  |          |

AB The invention concerns the simultaneous treatment of **hair** with **direct dyes** and **organopolysiloxanes**; **polysiloxanes** are **aminoalkyldimethylpolysiloxane**-polyethyleneoxazoline copolymers. Direct dye composition and organopolysiloxane solution are applied timely shifted and rinsed from hair at the same time. Thus organopolysiloxane solution contained (weight/weight%): organopolysiloxane-polyethyloxazoline graft copolymer 0.50; water 99.5. The dye included (weight/weight%): dimethicone copolyol 1.50; ethanol 5.00; propylene carbonate 25.00; lactic acid (90%); 5.00; sodium hydroxide (32%) 0.20; Salcare SC96 3.50; Acid Orange 7 0.15; Acid Yellow 3 0.10; Acid Violet 43 0.25; water to 100.

IC ICM A61K007-13  
ICS C08G077-26  
CC 62-3 (Essential Oils and Cosmetics)

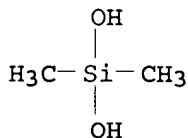
ST direct hair dye organopolysiloxane conditioner  
 IT Hair preparations  
     (conditioners; method for dyeing hair using organopolysiloxanes)  
 IT Dyes  
     (direct; method for dyeing hair using organopolysiloxanes)  
 IT Hair preparations  
     (dyes; method for dyeing hair using organopolysiloxanes)  
 IT Polysiloxanes, biological studies  
     RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
     (organopolysiloxanes; method for dyeing hair using organopolysiloxanes)  
 IT 633-96-5, Acid Orange 7 2871-01-4, HC REd 3 4430-18-6, Acid Violet 43  
     8004-92-0, Acid Yellow 3 9016-00-6D,  
     Poly[oxy(dimethylsilylene)], reaction products with alkylated  
     polyethylenimines 10431-98-8D, reaction products with siloxanes  
     25608-23-5D, reaction products with siloxanes 26381-41-9, Basic brown 16  
     31900-57-9D, reaction products with alkylated polyethylenimines  
     56932-44-6, HC yellow 5 68123-13-7, Basic Blue 99 68391-31-1, Basic  
     Yellow 57 156118-35-3D, reaction products with alkylated  
     polyethylenimines 176742-32-8, Basic brown 17  
     RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
     (method for dyeing hair using organopolysiloxanes)  
 IT 9016-00-6D, Poly[oxy(dimethylsilylene)], reaction products with  
     alkylated polyethylenimines 31900-57-9D, reaction products with  
     alkylated polyethylenimines  
     RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
     (method for dyeing hair using organopolysiloxanes)  
 RN 9016-00-6 HCAPLUS  
 CN Poly[oxy(dimethylsilylene)] (8CI, 9CI) (CA INDEX NAME)



RN 31900-57-9 HCAPLUS  
 CN Silanediol, dimethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 1066-42-8  
 CMF C2 H8 O2 Si



L34 ANSWER 33 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

KATHLEEN FULLER EIC1700 REMSEN 4B28 571/272-2505



AN 2003:357122 HCAPLUS  
 DN 138:373811  
 TI Use of particulate aminosilicones in pretreatment of direct **dyeing**  
 or oxidation of **keratin** fibers  
 IN Devin, Baudoin Priscille; Sabbagh, Anne  
 PA L'Oreal, Fr.  
 SO Fr. Demande, 14 pp.  
 CODEN: FRXXBL  
 DT Patent  
 LA French  
 FAN.CNT 1

|      | PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE     |
|------|--|------|----------|-----------------|----------|
| PI   | FR 2831813   | A1   | 20030509 | FR 2001-14484   | 20011108 |
|      | EP 1312341   | A2   | 20030521 | EP 2002-292662  | 20021025 |
|      | EP 1312341   | A3   | 20030723 |                 |          |
|      | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,<br>IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK |      |          |                 |          |
|      | BR 2002004920  | A    | 20030916 | BR 2002-4920    | 20021105 |
|      | ZA 2002009013  | A    | 20030526 | ZA 2002-9013    | 20021106 |
|      | RU 2260085   | C2   | 20050910 | RU 2002-129791  | 20021106 |
|      | CA 2411477   | AA   | 20030508 | CA 2002-2411477 | 20021107 |
|      | CN 1416797   | A    | 20030514 | CN 2002-149983  | 20021107 |
|      | JP 2003160455  | A2   | 20030603 | JP 2002-326173  | 20021108 |
|      | US 2003126692  | A1   | 20030710 | US 2002-290149  | 20021108 |
| PRAI | FR 2001-14484  | A    | 20011108 |                 |          |

AB Compns. containing particulate aminosilicones are used in pretreatment of direct **dyeing** or oxidation of **keratin** fibers, particularly hair. Formulation of a pretreatment hair composition containing 2% polydimethylsiloxane (DC 8299) is disclosed.

IC ICM A61K007-13  
 ICS A61K007-06

CC 62-3 (Essential Oils and Cosmetics)

ST particulate aminosilicone direct **dyeing** oxidn hair

IT Polysiloxanes, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (amino; use of particulate aminosilicones in pretreatment of direct **dyeing** or oxidation of **keratin** fibers)

IT Hair preparations  
 (creams; use of particulate aminosilicones in pretreatment of direct **dyeing** or oxidation of **keratin** fibers)

IT Hair preparations  
 (dyes, oxidative; use of particulate aminosilicones in pretreatment of direct **dyeing** or oxidation of **keratin** fibers)

IT Hair preparations  
 (gels; use of particulate aminosilicones in pretreatment of direct **dyeing** or oxidation of **keratin** fibers)

IT Hair preparations  
 (lotions; use of particulate aminosilicones in pretreatment of direct **dyeing** or oxidation of **keratin** fibers)

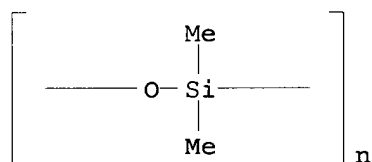
IT Hair preparations  
 (mousses; use of particulate aminosilicones in pretreatment of direct **dyeing** or oxidation of **keratin** fibers)

IT Hair preparations  
 (sprays; use of particulate aminosilicones in pretreatment of direct **dyeing** or oxidation of **keratin** fibers)

IT Oxidizing agents  
 Particle size

## Shampoos

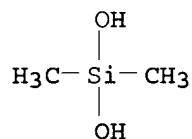
- (use of particulate aminosilicones in pretreatment of direct dyeing or oxidation of keratin fibers)
- IT 9016-00-6D, Polydimethylsiloxane, amine-containing  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (DC 2-8299; use of particulate aminosilicones in pretreatment of direct dyeing or oxidation of keratin fibers)
- IT 31900-57-9D, Polydimethylsiloxane, amine-containing  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (use of particulate aminosilicones in pretreatment of direct dyeing or oxidation of keratin fibers)
- IT 9016-00-6D, Polydimethylsiloxane, amine-containing  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (DC 2-8299; use of particulate aminosilicones in pretreatment of direct dyeing or oxidation of keratin fibers)
- RN 9016-00-6 HCAPLUS  
 CN Poly[oxy(dimethylsilylene)] (8CI, 9CI) (CA INDEX NAME)



- IT 31900-57-9D, Polydimethylsiloxane, amine-containing  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (use of particulate aminosilicones in pretreatment of direct dyeing or oxidation of keratin fibers)
- RN 31900-57-9 HCAPLUS  
 CN Silanediol, dimethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 1066-42-8  
 CMF C2 H8 O2 Si



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L34 ANSWER 34 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN  
 AN 2003:357120 HCAPLUS  
 DN 138:373809  
 TI Use of particulate aminosilicones in the post-treatment of direct dyeing or oxidation of keratin fibers  
 IN Lazzeri, Pascale; Devin, Baudoin Priscille; Sabbagh, Anne; Gawtreys, Jonathan; Restle, Serge  
 PA L'Oreal, Fr.  
 SO Fr. Demande, 14 pp.  
 CODEN: FRXXBL

DT Patent  
 LA French  
 FAN.CNT 1

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|------|---|------|----------|-----------------|----------|
| PI   | FR 2831811  | A1   | 20030509 | FR 2001-14481   | 20011108 |
|      | FR 2831811  | B1   | 20040723 |                 |          |
|      | ZA 2002009012   | A    | 20031023 | ZA 2002-9012    | 20020101 |
|      | EP 1312342  | A2   | 20030521 | EP 2002-292665  | 20021025 |
|      | EP 1312342  | A3   | 20030723 |                 |          |
|      | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK |      |          |                 |          |
|      | BR 2002004922   | A    | 20030916 | BR 2002-4922    | 20021105 |
|      | RU 2241435  | C2   | 20041210 | RU 2002-129797  | 20021106 |
|      | CA 2411448  | AA   | 20030508 | CA 2002-2411448 | 20021107 |
|      | CN 1416796  | A    | 20030514 | CN 2002-149845  | 20021107 |
|      | JP 2003146859   | A2   | 20030521 | JP 2002-326160  | 20021108 |
|      | US 2004045098   | A1   | 20040311 | US 2002-290159  | 20021108 |
| PRAI | FR 2001-14481   | A    | 20011108 |                 |          |

AB Comps. containing particulate aminosilicones are used in post-treatment of direct **dyeing** or oxidation of **keratin** fibers, particularly hair. Formulation of a post-treatment hair composition containing 2% polydimethylsiloxane (DC 8299) is disclosed.

IC ICM A61K007-13

CC 62-3 (Essential Oils and Cosmetics)

ST particulate aminosilicone direct **dyeing** oxidn hair

IT **Polysiloxanes**, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(**amino**; use of particulate **aminosilicones** in post-treatment of direct **dyeing** or oxidation of **keratin** fibers)

IT Hair preparations

(creams; use of particulate aminosilicones in post-treatment of direct **dyeing** or oxidation of **keratin** fibers)

IT Hair preparations

(**dyes**, oxidative; use of particulate aminosilicones in post-treatment of direct **dyeing** or oxidation of **keratin** fibers)

IT Hair preparations

(gels; use of particulate aminosilicones in post-treatment of direct **dyeing** or oxidation of **keratin** fibers)

IT Hair preparations

(lotions; use of particulate aminosilicones in post-treatment of direct **dyeing** or oxidation of **keratin** fibers)

IT Hair preparations

(mousses; use of particulate aminosilicones in post-treatment of direct **dyeing** or oxidation of **keratin** fibers)

IT Hair preparations

(sprays; use of particulate aminosilicones in post-treatment of direct **dyeing** or oxidation of **keratin** fibers)

IT Oxidizing agents

Particle size

Shampoos

(use of particulate aminosilicones in post-treatment of direct **dyeing** or oxidation of **keratin** fibers)

IT 9016-00-6D, Polydimethylsiloxane, amine-containing

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(DC 2-8299; use of particulate aminosilicones in post-treatment of direct **dyeing** or oxidation of **keratin** fibers)

IT 31900-57-9D, Polydimethylsiloxane, amine-containing

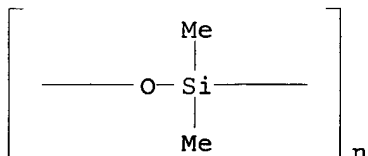
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (use of particulate aminosilicones in post-treatment of direct  
 dyeing or oxidation of keratin fibers)

IT 9016-00-6D, Polydimethylsiloxane, amine-containing

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (DC 2-8299; use of particulate aminosilicones in post-treatment of  
 direct dyeing or oxidation of keratin fibers)

RN 9016-00-6 HCAPLUS

CN Poly[oxy(dimethylsilylene)] (8CI, 9CI) (CA INDEX NAME)



IT 31900-57-9D, Polydimethylsiloxane, amine-containing

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (use of particulate aminosilicones in post-treatment of direct  
 dyeing or oxidation of keratin fibers)

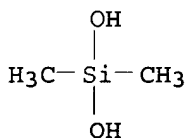
RN 31900-57-9 HCAPLUS

CN Silanediol, dimethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 1066-42-8

CMF C2 H8 O2 Si



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L34 ANSWER 35 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2003:357117 HCAPLUS

DN 138:373806

TI **Hair dye** composition containing **amino  
silicone**

IN Legrand, Frederic; Millequant, Jean Marie

PA L'Oreal, Fr.

SO Fr. Demande, 47 pp.

CODEN: FRXXBL

DT Patent

LA French

FAN.CNT 1

|    | PATENT NO. | KIND | DATE     | APPLICATION NO. | DATE     |
|----|------------|------|----------|-----------------|----------|
| PI | FR 2831808 | A1   | 20030509 | FR 2001-14469   | 20011108 |
|    | FR 2831808 | B1   | 20031219 |                 |          |
|    | EP 1312343 | A2   | 20030521 | EP 2002-292666  | 20021025 |
|    | EP 1312343 | A3   | 20030716 |                 |          |

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK

|               |    |          |                 |          |
|---------------|----|----------|-----------------|----------|
| BR 2002004934 | A  | 20030916 | BR 2002-4934    | 20021106 |
| RU 2239412    | C2 | 20041110 | RU 2002-129808  | 20021106 |
| CA 2411137    | AA | 20030508 | CA 2002-2411137 | 20021107 |
| CN 1416798    | A  | 20030514 | CN 2002-149984  | 20021107 |
| ZA 2002009091 | A  | 20030523 | ZA 2002-9091    | 20021108 |
| JP 2003206220 | A2 | 20030722 | JP 2002-326185  | 20021108 |
| US 2003152534 | A1 | 20030814 | US 2002-290345  | 20021108 |

PRAI FR 2001-14469 A 20011108

OS MARPAT 138:373806

AB The invention relates to a composition of **dyeing** for human **keratin** (e.g., hair) fibers, with the composition comprising at least a direct dye or an oxidative dye, and a **silicone amino aminoethyliminoalkyl** (C4-C8). The invention also relates to the processes and devices of dyeing implementing the composition. Thus, a **hair dye** composition contained Basic Blue 99 0.1, Dow Corning 2-8299 2, EtOH 20, Jaguar HP 60 1, Oramix CG 110 8, 2-amino-2-methyl-1-propanol qs and water qs to 100 g.

IC ICM A61K007-13

CC 62-3 (Essential Oils and Cosmetics)

ST **hair dye amino silicone**

IT Phenols, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(amino; **hair dye** composition containing **amino silicone**)

IT **Polysiloxanes**, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(aminoalkyl; **hair dye** composition containing **amino silicone**)

IT Surfactants  
(cationic; **hair dye** composition containing **amino silicone**)

IT Azo dyes  
**Dyes**  
(direct; **hair dye** composition containing **amino silicone**)

IT **Hair preparations**  
(dyes, oxidative; **hair dye** composition containing **amino silicone**)

IT **Hair preparations**  
(dyes; **hair dye** composition containing **amino silicone**)

IT Azo dyes  
Human  
Molecular weight distribution  
Particle size distribution  
Surfactants  
Viscosity  
(**hair dye** composition containing **amino silicone**)

IT Bisphenols  
Bromates  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(**hair dye** composition containing **amino silicone**)

IT Surfactants  
(nonionic; **hair dye** composition containing **amino silicone**)

IT Amines, biological studies

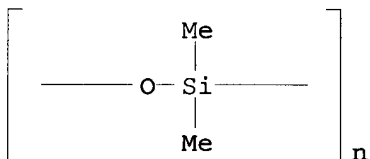
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(phenolic; **hair dye** composition containing **amino silicone**)

IT 9016-00-6, Poly[oxy(dimethylsilylene)]  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(Dow Corning 2-8299; **hair dye** composition containing **amino silicone**)

IT 84-65-1D, Anthraquinone, derivs. 95-54-5D, o-Phenylenediamine, derivs. 95-55-6D, o-Aminophenol, derivs. 106-50-3, p-Phenylenediamine, biological studies 106-50-3D, p-Phenylenediamine, derivs. 108-45-2D, m-Phenylenediamine, derivs. 110-86-1D, Pyridine, derivs. 123-30-8D, p-Aminophenol, derivs. 124-43-6 288-13-1D, Pyrazole, derivs. 289-95-2D, Pyrimidine, derivs. 591-27-5D, m-Aminophenol, derivs. 2835-95-2, 2-Methyl-5-aminophenol 7722-84-1, Hydrogen peroxide, biological studies 68123-13-7, Basic Blue 99  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(**hair dye** composition containing **amino silicone**)

IT 9016-00-6, Poly[oxy(dimethylsilylene)]  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(Dow Corning 2-8299; **hair dye** composition containing **amino silicone**)

RN 9016-00-6 HCAPLUS  
CN Poly[oxy(dimethylsilylene)] (8CI, 9CI) (CA INDEX NAME)



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L34 ANSWER 36 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN  
AN 2003:309215 HCAPLUS  
DN 138:326253  
TI Method and kits for treatment of hair to prevent damage due to bleaching of **dyeing**  
IN Ishikawa, Ryoji  
PA Hoyu Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 10 pp.  
CODEN: JKXXAF

DT Patent  
LA Japanese

FAN.CNT 1

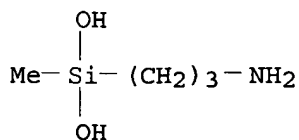
|      | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE     |
|------|----------------|------|----------|-----------------|----------|
| PI   | JP 2003119116  | A2   | 20030423 | JP 2002-362662  | 20021213 |
| PRAI | JP 2002-362662 |      | 20021213 |                 |          |

AB The method is performed by treating hair with (1) 2-component hair bleach comprising an alkaline agent and an oxidizing agent or hair **dye** comprising an alkaline agent and an oxidative **dye**-containing oxidizing agent, applying (2) an aftertreatment agent with pH 2.5-7.0 containing at least cationic compds. and H<sub>2</sub>O to the hair just after bleaching or **dyeing**, and drying the hair without rinsing, wherein alkalinity of the bleach or hair **dye** is 3.0-20.0 mL/g as titer of 0.1N acid upon

mixing. The kit comprises the 2-component bleach or hair dye and the aftertreatment agent. The aftertreatment decreases friction and gives gloss and bright color to hair. An alkaline agent containing cetanol, surfactants, aqueous NH<sub>3</sub>, H<sub>2</sub>NCH<sub>2</sub>CH<sub>2</sub>OH, and additives was mixed with H<sub>2</sub>O<sub>2</sub>-containing oxidizing agent and applied to hair. After 20 min, the hair was shampooed, towel-dried, and treated with a composition (pH 2.8) containing cetostearyl alc. 0.3, aminopropyldimethicone 0.2, behenyltrimethylammonium methylsulfate 1.0, decamethylcyclopentasiloxane 2.0, lanolin 1.0, cetanol 1.5, citric acid, 2-amino-2-methyl-1-propanol, perfume 0.1, methylparaben 0.1%, and H<sub>2</sub>O balance. The hair was quickly dryable and had smooth texture, gloss, and bright color.

IC ICM A61K007-13  
ICS A61K007-135  
CC 62-3 (Essential Oils and Cosmetics)  
ST bleach hair acidic aftertreatment agent cationic compd; hair dye  
acidic aftertreatment agent cationic surfactant; behenyltrimethylammonium  
methylsulfate acidic aftertreatment agent hair bleaching dyeing  
IT Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(aftertreatment of bleached or dyed hair with agents containing  
cationic compds. to prevent hair damage and give smoothness, gloss, and  
bright color)  
IT Hair preparations  
(bleaches; aftertreatment of bleached or dyed hair with  
agents containing cationic compds. to prevent hair damage and give  
smoothness, gloss, and bright color)  
IT Surfactants  
(cationic; aftertreatment of bleached or dyed hair with  
agents containing cationic compds. to prevent hair damage and give  
smoothness, gloss, and bright color)  
IT Hair preparations  
(conditioners; aftertreatment of bleached or dyed hair with  
agents containing cationic compds. to prevent hair damage and give  
smoothness, gloss, and bright color)  
IT Hair preparations  
(dyes, oxidative; aftertreatment of bleached or dyed  
hair with agents containing cationic compds. to prevent hair damage and  
give smoothness, gloss, and bright color)  
IT 112-00-5, Lauryltrimethylammonium chloride 112-03-8,  
Stearyltrimethylammonium chloride 81646-13-1, Behenyltrimethylammonium  
methylsulfate 81859-24-7 158465-66-8,  
(Aminopropyl)methylsilanediol-dimethylsilanediol copolymer  
278619-54-8  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(aftertreatment of bleached or dyed hair with  
agents containing cationic compds. to prevent hair damage and  
give smoothness, gloss, and bright color)  
IT 158465-66-8, (Aminopropyl)methylsilanediol-dimethylsilanediol  
copolymer 278619-54-8  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(aftertreatment of bleached or dyed hair with  
agents containing cationic compds. to prevent hair damage and  
give smoothness, gloss, and bright color)  
RN 158465-66-8 HCAPLUS  
CN Silanediol, (3-aminopropyl)methyl-, polymer with dimethylsilanediol (9CI)  
(CA INDEX NAME)  
CM 1  
CRN 158465-65-7

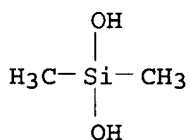
CMF C4 H13 N O2 Si



CM 2

CRN 1066-42-8

CMF C2 H8 O2 Si



RN 278619-54-8 HCAPLUS

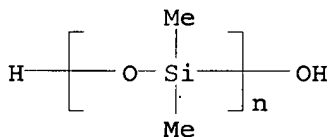
CN 1,2-Ethanediamine, N-[3-(trimethoxysilyl)propyl]-, polymer with  
 $\alpha$ -hydro- $\omega$ -hydroxypoly[oxy(dimethylsilylene)], block (9CI) (CA  
 INDEX NAME)

CM 1

CRN 31692-79-2

CMF (C2 H6 O Si)<sub>n</sub> H2 O

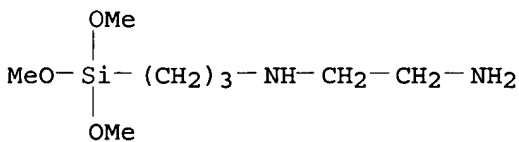
CCI PMS



CM 2

CRN 1760-24-3

CMF C8 H22 N2 O3 Si



L34 ANSWER 37 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN  
 AN 2003:239800 HCAPLUS



DN 138:275916  
 TI Hair preparations containing hydroxycarboxylic acids, cationic  
 surfactants, and silicones  
 IN Aono, Megumi; Ito, Taketoshi; Watanabe, Shinichi; Nishida, Yuichi  
 PA Lion Corp., Japan  
 SO Jpn. Kokai Tokkyo Koho, 25 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 2

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|------|---|------|----------|-----------------|----------|
| PI   | JP 2003089620   | A2   | 20030328 | JP 2001-285790  | 20010919 |
|      | WO 2003026598   | A1   | 20030403 | WO 2002-JP9457  | 20020913 |
|      | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW |      |          |                 |          |
|      | RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  |      |          |                 |          |
|      | EP 1437119  | A1   | 20040714 | EP 2002-765547  | 20020913 |
|      | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK   |      |          |                 |          |
|      | US 2004247551   | A1   | 20041209 | US 2004-489910  | 20040318 |
| PRAI | JP 2001-285790  | A    | 20010919 |                 |          |
|      | JP 2002-251201  | A    | 20020829 |                 |          |
|      | WO 2002-JP9457  | W    | 20020913 |                 |          |

AB The hair preps., which reduce friction of hairs damaged by permanent-wave preps., hair dyes, UV, dryers, etc., contain hydroxycarboxylic acids showing solubility in EtOH ≤5%, cationic surfactants, and silicones. An out-bath hair-care preparation was prepared from gallic acid 3,5-diglucoside 1, Arquad T 800 (stearyltrimethylammonium chloride) 1, KSG 21 (crosslinked polyether-modified silicone-methylpolysiloxane mixture) 5, Emalex 630 (polyoxyethylene stearyl ether) 0.2, EtOH 10, a perfume composition 0.1%, and H2O balance.

IC ICM A61K007-06  
 ICS A61K007-075

CC 62-3 (Essential Oils and Cosmetics)

IT Polysiloxanes, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 ([aminoethyl]amino]propyl hydroxy, di-Me, SM 8704C; hair preps. to reduce friction of damaged hair containing hydroxycarboxylic acids, cationic surfactants, and silicones)

IT Polysiloxanes, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (amino-containing, FZ 4672, KM 907; hair preps. to reduce friction of damaged hair containing hydroxycarboxylic acids, cationic surfactants, and silicones)

IT 31900-57-9, Dimethylsilanediol homopolymer 31900-57-9D,

Dimethylsilanediol homopolymer, trimethylsilyl-terminated

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(assumed monomers; hair preps. to reduce friction of damaged hair containing hydroxycarboxylic acids, cationic surfactants, and silicones)

IT 56-45-1, Serine, biological studies 68-04-2, Sodium citrate 75-21-8D,  
 Oxirane, polymers with di-Me siloxanes 107-64-2,  
 Distearyltrimethylammonium chloride 112-03-8, Stearyltrimethylammonium

chloride 123-03-5, Cetylpyridinium chloride 149-91-7D, Gallic acid, glycosides 299-29-6, Iron gluconate 526-95-4, Gluconic acid 527-09-3, Copper gluconate 4468-02-4, Zinc gluconate 7173-54-8, Trilaurylmethylammonium chloride 9016-00-6, SH 200C30cs 10366-91-3 42557-10-8, SH 200-100 91984-84-8 108737-15-1 143793-06-0, SH 3772C 159858-54-5 474111-84-7 503302-33-8

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(hair preps. to reduce friction of damaged hair containing hydroxycarboxylic acids, cationic surfactants, and silicones)

IT 31900-57-9, Dimethylsilanediol homopolymer 31900-57-9D, Dimethylsilanediol homopolymer, trimethylsilyl-terminated

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(assumed monomers; hair preps. to reduce friction of damaged hair containing hydroxycarboxylic acids, cationic surfactants, and silicones)

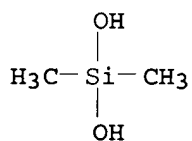
RN 31900-57-9 HCAPLUS

CN Silanediol, dimethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 1066-42-8

CMF C2 H8 O2 Si



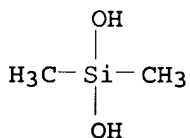
RN 31900-57-9 HCAPLUS

CN Silanediol, dimethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 1066-42-8

CMF C2 H8 O2 Si



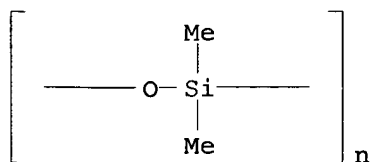
IT 9016-00-6, SH 200C30cs

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(hair preps. to reduce friction of damaged hair containing hydroxycarboxylic acids, cationic surfactants, and silicones)

RN 9016-00-6 HCAPLUS

CN Poly[oxy(dimethylsilylene)] (8CI, 9CI) (CA INDEX NAME)



L34 ANSWER 38 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2003:112895 HCAPLUS

DN 138:158527

TI Acidic **hair dye** compositions containing **amino**  
- or ammonium-modified **silicones**

IN Sasaki, Tomoko

PA Shiseido Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 19 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE     |
|------|----------------|------|----------|-----------------|----------|
| PI   | JP 2003040746  | A2   | 20030213 | JP 2001-225455  | 20010726 |
| PRAI | JP 2001-225455 |      | 20010726 |                 |          |

AB The compns. contain 0.01-10.0 weight% silicones  $R_2Si(R_1)_2O[Si(R_1)_2O]_m(SiR_1R_3O)_nSi(R_1)_2R_2$  [I;  $R_1 = Me, Ph$ ;  $R_2 = Me, OH$ ,  $R_3 = R_4Z$ ;  $R_4 = C_3-6$  alkylene;  $Z = amino$  or ammonium group;  $m + n = 3000-20,000$ ;  $n/m = 1/500-1/10,000$ ]. The compns. show good **dye** fixing and color retention. A **hair dye** was prepared from Japan Black 401 0.2, Japan Purple 401 0.3, Japan Yellow 4 0.3, benzyl alc. 4.0, succinoglycan 2.0, I [ $R_1 = R_2 = Me$ ,  $R_3 = (CH_2)_3NH_2$ ,  $m = 5000$ ,  $n = 5$ ] 0.005, N-methylpyrrolidone 11.0, citric acid 4.0, and  $H_2O$  to 100%.

IC ICM A61K007-13

CC 62-3 (Essential Oils and Cosmetics)

ST acidic **hair dye amino** ammonium  
**silicone**

IT Polysiloxanes, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(acidic **hair dye** compns. containing **amino-** or  
ammonium-modified **silicones**)

IT Hair preparations

(**dyes**; acidic **hair dye** compns. containing  
**amino-** or ammonium-modified **silicones**)

IT 158465-66-8D, 3-Aminopropylmethylsilanediol-dimethylsilanediol  
copolymer, trimethylsilyl-terminated 175842-33-8D, trimethylsilyl-  
terminated

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(acidic **hair dye** compns. containing **amino-** or  
ammonium-modified **silicones**)

IT 11138-66-2, Xanthan gum 73667-50-2, Succinoglycan

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(addnl. component; acidic **hair dye** compns. containing  
**amino-** or ammonium-modified **silicones**)

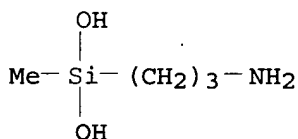
IT 158465-66-8D, 3-Aminopropylmethylsilanediol-dimethylsilanediol  
copolymer, trimethylsilyl-terminated

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(acidic **hair dye** compns. containing **amino-** or  
ammonium-modified **silicones**)

RN 158465-66-8 HCAPLUS  
CN Silanediol, (3-aminopropyl)methyl-, polymer with dimethylsilanediol (9CI)  
(CA INDEX NAME)

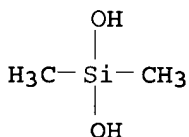
CM 1

CRN 158465-65-7  
CMF C4 H13 N O2 Si



CM 2

CRN 1066-42-8  
CMF C2 H8 O2 Si



L34 ANSWER 39 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2003:15492 HCAPLUS

DN 138:44450

TI **Hair dyes** containing **amino polysiloxane** emulsions

IN Sato, Akinori

PA GE Toshiba Silicone Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE            |
|------|----------------|------|----------|-----------------|-----------------|
| PI   | JP 2003002817  | A2   | 20030108 | JP 2001-186803  | <u>20010620</u> |
| PRAI | JP 2001-186803 |      | 20010620 |                 |                 |

AB **Hair dyes** contain oil-in-water emulsions comprising

(A) **amino-modified polyorganosiloxanes** 100, (B)

1/0.1-1/20 weight ratio of nonionic surfactants and carboxylic acid-type amphoteric surfactants 10-200, and (C) H2O 20-400 weight parts. The **dyes** are stable and show good **dyeability** and **hair-setting** effect. A **hair dye** 1st agent was

prepared from silicone emulsion (containing trimethylsilyl-terminated 2-aminoethyl-3-aminopropyl-containing di-Me **polysiloxane**, polyoxyethylene cetyl ether, glycerin, AcOH, coco amidopropyl betaine, and H2O) 5.0, nitro-p-phenylenediamine 1.0, 4-amino-2-nitrophenol 1.0, oleic acid 20.0, bis-2-hydroxyethylsorbitan amine 9.0, hydroxyethylstearamide 6.0, propylene glycol 12.0, disodium edetate 0.5, aqueous NH3 10.0, Na2SO3

0.5, and H2O 50.0 weight parts.

IC ICM A61K007-13

CC 62-3 (Essential Oils and Cosmetics)

ST **hair dye amino polysiloxane**  
emulsion; nonionic surfactant **amino polysiloxane**  
**hair dye**; amphoteric surfactant **amino**  
**polysiloxane hair dye**

IT Surfactants  
(amphoteric; **hair dyes** containing **amino**  
**polysiloxane** emulsions)

IT **Hair preparations**  
(**dyes**; **hair dyes** containing **amino**  
**polysiloxane** emulsions)

IT Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(**hair dyes** containing **amino**  
**polysiloxane** emulsions)

IT Surfactants  
(nonionic; **hair dyes** containing **amino**  
**polysiloxane** emulsions)

IT 36574-66-0D, N-coco acyl derivs.  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(Coco amidopropyl betaines, surfactants; **hair dyes**  
containing **amino polysiloxane** emulsions)

IT **156623-21-1D**, 3-(2-Aminoethyl)aminopropylmethylsilanediol-  
dimethylsilanediol copolymer, trimethylsilyl-terminated  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(**hair dyes** containing **amino**  
**polysiloxane** emulsions)

IT 9004-95-9, Polyoxyethylene cetyl ether  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(surfactant; **hair dyes** containing **amino**  
**polysiloxane** emulsions)

IT **156623-21-1D**, 3-(2-Aminoethyl)aminopropylmethylsilanediol-  
dimethylsilanediol copolymer, trimethylsilyl-terminated  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(**hair dyes** containing **amino**  
**polysiloxane** emulsions)

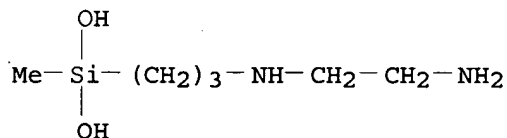
RN 156623-21-1 HCAPLUS

CN Silanediol, [3-[(2-aminoethyl)amino]propyl]methyl-, polymer with  
dimethylsilanediol (9CI) (CA INDEX NAME)

CM 1

CRN 83145-66-8

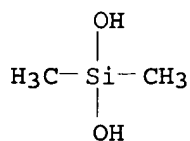
CMF C6 H18 N2 O2 Si



CM 2

CRN 1066-42-8

CMF C2 H8 O2 Si



L34 ANSWER 40 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:888510 HCAPLUS

DN 137:374998

TI Terminal **amino** functional **polysiloxane** hair conditioning and hair coloring compositions

IN Davies, Alan Glyn; Shiel, Steven William

PA The Procter & Gamble Company, USA

SO PCT Int. Appl., 50 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

|      | PATENT NO.      | KIND | DATE     | APPLICATION NO.  | DATE     |  |
|------|-----------------|------|----------|--|----------|--|
| PI   | WO 2002092034   | A1   | 20021121 | WO 2002-US15281  | 20020513 |  |
|      | W:              |      |          | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, FR, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG |          |  |
|      | RW:             |      |          | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG   |          |  |
|      | CA 2446546      | AA   | 20021121 | CA 2002-2446546  | 20020513 |  |
|      | EP 1392227      | A1   | 20040303 | EP 2002-769740   | 20020513 |  |
|      | R:              |      |          | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR   |          |  |
|      | CN 1509160      | A    | 20040630 | CN 2002-809926   | 20020513 |  |
|      | JP 2004529948   | T2   | 20040930 | JP 2002-588953   | 20020513 |  |
|      | US 2004131577   | A1   | 20040708 | US 2003-713636   | 20031114 |  |
| PRAI | GB 2001-11720   | A    | 20010514 |  |          |  |
|      | WO 2002-US15281 | W    | 20020513 |  |          |  |

AB The present invention relates to a hair care composition comprising a terminal **amino-functional polysiloxane**, which provides improved durable conditioning particularly when utilized in conjunction with a hair coloring composition **Hair dye** compns. were prepared containing **dye** emulsions, H2O2, and **aminopropyltrimethylsilyl-terminated polydimethylsiloxanes**.

IC ICM A61K007-08

ICS A61K007-13

CC 62-3 (Essential Oils and Cosmetics)

ST **hair conditioner dye amino terminated siloxane**

IT Polysiloxanes, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(amine-terminated; terminal **amino** functional

**polysiloxane** hair conditioning and hair coloring compns.)

IT Hair preparations

(conditioners; terminal **amino** functional **polysiloxane** hair conditioning and hair coloring compns.)

IT **Hair preparations**  
(**dyes**; terminal **amino** functional **polysiloxane** hair conditioning and hair coloring compns.)

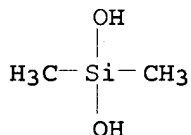
IT **31900-57-9D**, Dimethylsilanediol, homopolymer, 3-aminopropyldimethylsilyl-terminated **97917-34-5**  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(terminal **amino** functional **polysiloxane** hair conditioning and hair coloring compns.)

IT **31900-57-9D**, Dimethylsilanediol, homopolymer, 3-aminopropyldimethylsilyl-terminated **97917-34-5**  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(terminal **amino** functional **polysiloxane** hair conditioning and hair coloring compns.)

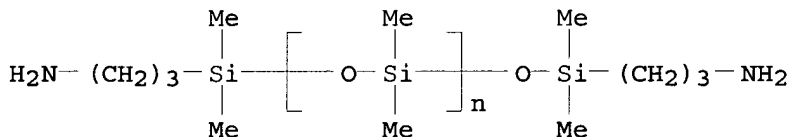
RN **31900-57-9** HCAPLUS  
CN Silanediol, dimethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 1066-42-8  
CMF C2 H8 O2 Si



RN **97917-34-5** HCAPLUS  
CN Poly[oxy(dimethylsilylene)],  $\alpha$ -[(3-aminopropyl)dimethylsilyl]- $\omega$ -[[[(3-aminopropyl)dimethylsilyl]oxy]- (9CI) (CA INDEX NAME)



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L34 ANSWER 41 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN  
AN 2002:831728 HCAPLUS  
DN 137:329257  
TI **Hair dyes** containing active conditioning ingredients  
IN Wolff, Wolfgang; Akram, Mustafa; Tanaka, Hiroshi  
PA Hans Schwarzkopf GmbH & Co. Kg, Germany  
SO Ger. Offen., 24 pp.  
CODEN: GWXXBX  
DT Patent  
LA German  
FAN.CNT 1

|    | PATENT NO.  | KIND | DATE     | APPLICATION NO.  | DATE     |
|----|-------------|------|----------|------------------|----------|
| PI | DE 10120914 | A1   | 20021031 | DE 2001-10120914 | 20010427 |

WO 2002087515 A2 20021107 WO 2002-EP4275 20020418  
 WO 2002087515 A3 20031030  
 W: AU, JP, US  
 RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,  
 PT, SE, TR  
 EP 1385468 A2 20040204 EP 2002-730173 20020418  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, FI, CY, TR  
 JP 2004529933 T2 20040930 JP 2002-584866 20020418  
 US 2004133996 A1 20040715 US 2003-691427 20031022  
 PRAI DE 2001-10120914 A 20010427  
 WO 2002-EP4275 W 20020418  
 AB The invention concerns **hair dye** formulations that  
 include a combination of active conditioners selected from the group of  
**amino-functionalized polysiloxanes** and quaternary  
 ammonium-acrylic copolymer. The conditioners are included in oxidative  
 and direct **hair dyes**. Thus a dye cream contained  
 (weight/weight%): aqueous ammonium carbopol solution (1%) 15.0; Lanette E 0.70; sodium  
 lauryl ether sulfate (27% aqueous solution) 4.40; PEG-400 0.60; potassium oleate  
 (12.5 aqueous solution) 3.00; titanium dioxide 0.50; cetylstearyl alc. 50/50  
 12.00; Eumulgin B2 3.00; Eutanol G 2.00; Cutina AGS 2.00; Cutina GMS-SE  
 2.00; XF42-B1989 (Amodimethicone) 1.50; potassium hydroxide (50% aqueous  
 solution) 0.48; tetrasodium EDTA 0.40; sodium sulfite 0.10; ascorbic acid  
 0.05; Merquat Plus 3330 2.00; perfume 0.50; ammonia (25% aqueous solution) 6.00;  
 Aerosil 200 0.25; p-toluenediamine sulfate 0.460; resorcin 0.200;  
 m-aminophenol 0.026; 2,6-diaminopyridine 0.010; 2,4-diaminophenoxyethanol  
 dihydrochloride 0.012; water to 100.  
 IC ICM A61K007-13  
 CC 62-3 (Essential Oils and Cosmetics)  
 ST **hair dye** conditioner **aminofunctionalized**  
**polysiloxane** quaternary ammonium acrylic copolymer  
 IT **Polysiloxanes**, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 ((**aminoethyl**)**amino**]propyl hydroxy, di-Me;  
**hair dyes** containing active conditioning ingredients)  
 IT **Polysiloxanes**, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (**amino-functionalized**; **hair dyes** containing  
 active conditioning ingredients)  
 IT **Hair preparations**  
 (conditioners; **hair dyes** containing active conditioning  
 ingredients)  
 IT **Dyes**  
 (direct; **hair dyes** containing active conditioning  
 ingredients)  
 IT **Hair preparations**  
 (**dyes**, oxidative; **hair dyes** containing active  
 conditioning ingredients)  
 IT **Hair preparations**  
 (**dyes**; **hair dyes** containing active  
 conditioning ingredients)  
 IT Oxidizing agents  
 (**hair dyes** containing active conditioning ingredients)  
 IT Quaternary ammonium compounds, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (**hair dyes** containing active conditioning ingredients)  
 IT Acrylic polymers, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (quaternary ammonium-acrylic copolymer; **hair dyes**  
 containing active conditioning ingredients)

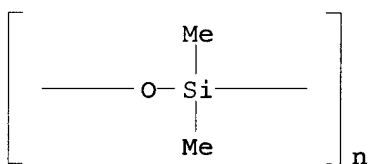


IT 99-56-9, 1,2-Diamino-4-nitrobenzene 108-46-3, Resorcin, biological studies 120-72-9D, Indole, derivs. 123-30-8, p-Aminophenol 141-86-6, 2,6-Diaminopyridine 496-15-1D, Indoline, derivs. 591-27-5, m-Aminophenol 2835-95-2, 5-Amino-2-methylphenol 6369-59-1, p-Toluenediamine sulfate 9016-00-6D, Dimethylpolysiloxane, derivs. 25136-75-8, Merquat Plus 3330 66422-95-5, 2,4-Diaminophenoxyethanol dihydrochloride  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hair dyes containing active conditioning ingredients)

IT 9016-00-6D, Dimethylpolysiloxane, derivs.  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hair dyes containing active conditioning ingredients)

RN 9016-00-6 HCAPLUS

CN Poly[oxy(dimethylsilylene)] (8CI, 9CI) (CA INDEX NAME)



L34 ANSWER 42 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:752243 HCAPLUS

DN 137:252691

TI Cleaning cosmetic compositions containing anionic surfactant derivatives of **amino** acids and **silicones**

IN Perron, Beatrice; Restle, Serge

PA L'Oreal, Fr.

SO Eur. Pat. Appl., 17 pp.

CODEN: EPXXDW

DT Patent

LA French

FAN.CNT 1

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|------|---|------|----------|-----------------|----------|
| PI   | EP 1245224  | A1   | 20021002 | EP 2002-290684  | 20020319 |
|      | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR |      |          |                 |          |
|      | FR 2822681  | A1   | 20021004 | FR 2001-4383    | 20010330 |
|      | FR 2822681  | B1   | 20030516 |                 |          |
|      | US 2002187904   | A1   | 20021212 | US 2002-108545  | 20020329 |
|      | JP 2002308759   | A2   | 20021023 | JP 2002-99286   | 20020401 |
| PRAI | FR 2001-4383  | A    | 20010330 |                 |          |

OS MARPAT 137:252691

AB Cosmetic compns. containing anionic surfactant derivs. of N-acyl polycarboxylic amino acids and their salts are claimed for cleansing or conditioning hair and skin. A shampoo contained 30% N-cocoylglutamine triethanolamine salt 16.7, 30% cocoylbetaine 8.3, 26% sodium oxyethylene alkyl ether sulfate 38, copra acid monoisopropanolamide 2.5, a mixture of hexadecyloxy-2-octadecanol:cetyl alc. 2.5, Mirasil DM500,000 (polydimethylsiloxane) 1.5, sodium chloride 1, preservatives, pH adjuster, and water q.s. 100 g.

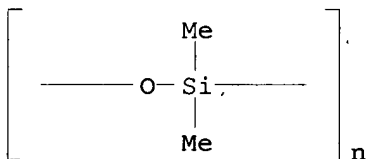
IC ICM A61K007-50

CC 62-3 (Essential Oils and Cosmetics)

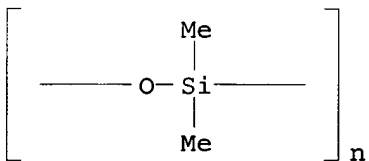
ST cleansing cosmetic anionic surfactant **amino** acid deriv  
**silicone**; shampoo cocoacyl glutamine triethanolamine silicone

- IT Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(Me vinyl; cleaning cosmetic compns. containing anionic surfactant derivs. of **amino acids and silicones**)
- IT Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(alkyl aryl; cleaning cosmetic compns. containing anionic surfactant derivs. of **amino acids and silicones**)
- IT Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(alkyl; cleaning cosmetic compns. containing anionic surfactant derivs. of **amino acids and silicones**)
- IT Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(amine-terminated; cleaning cosmetic compns. containing anionic surfactant derivs. of **amino acids and silicones**)
- IT Surfactants  
(amphoteric; cleaning cosmetic compns. containing anionic surfactant derivs. of **amino acids and silicones**)
- IT Surfactants  
(anionic; cleaning cosmetic compns. containing anionic surfactant derivs. of **amino acids and silicones**)
- IT Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(aryl; cleaning cosmetic compns. containing anionic surfactant derivs. of **amino acids and silicones**)
- IT Hair preparations  
(bleaches; cleaning cosmetic compns. containing anionic surfactant derivs. of **amino acids and silicones**)
- IT Polyelectrolytes  
Surfactants  
(cationic; cleaning cosmetic compns. containing anionic surfactant derivs. of **amino acids and silicones**)
- IT Polysaccharides, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(cationic; cleaning cosmetic compns. containing anionic surfactant derivs. of **amino acids and silicones**)
- IT Hair preparations  
Shampoos  
(cleaning cosmetic compns. containing anionic surfactant derivs. of **amino acids and silicones**)
- IT Amino acids, biological studies  
Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(cleaning cosmetic compns. containing anionic surfactant derivs. of **amino acids and silicones**)
- IT Cosmetics  
(cleansing; cleaning cosmetic compns. containing anionic surfactant derivs. of **amino acids and silicones**)
- IT Betaines  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(coco alkyl dimethyl; cleaning cosmetic compns. containing anionic surfactant derivs. of **amino acids and silicones**)
- IT Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(di-Me, hydroxyalkyl Me; cleaning cosmetic compns. containing anionic surfactant derivs. of **amino acids and silicones**)
- IT Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(di-Me, quaternary ammonium group-contg; cleaning cosmetic compns.)

- containing anionic surfactant derivs. of **amino acids** and **silicones**)
- IT **Hair preparations**  
(**dyes**; cleaning cosmetic compns. containing anionic surfactant derivs. of **amino acids** and **silicones**)
- IT **Surfactants**  
(nonionic; cleaning cosmetic compns. containing anionic surfactant derivs. of **amino acids** and **silicones**)
- IT **Hair preparations**  
(permanent wave; cleaning cosmetic compns. containing anionic surfactant derivs. of **amino acids** and **silicones**)
- IT 56-85-9D, Glutamine, cocoacyl derivs. 9004-34-6D, Cellulose, quaternary ammonium derivs. **9016-00-6**, Polydimethylsiloxane **9016-00-6D**, Polydimethylsiloxane, trimethylsilyl-terminated 28301-34-0, PolyDiallyldimethylammonium **31900-57-9**, Polydimethylsiloxane **31900-57-9D**, Polydimethylsiloxane, trimethylsilyl-terminated 62494-55-7, Acylglutamate ct12 96525-76-7, Acrylamide-Diallyldimethylammonium copolymer  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(cleaning cosmetic compns. containing anionic surfactant derivs. of **amino acids** and **silicones**)
- IT **9016-00-6**, Polydimethylsiloxane **9016-00-6D**, Polydimethylsiloxane, trimethylsilyl-terminated **31900-57-9**, Polydimethylsiloxane **31900-57-9D**, Polydimethylsiloxane, trimethylsilyl-terminated  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(cleaning cosmetic compns. containing anionic surfactant derivs. of **amino acids** and **silicones**)
- RN 9016-00-6 HCAPLUS  
CN Poly[oxy(dimethylsilylene)] (8CI, 9CI) (CA INDEX NAME)



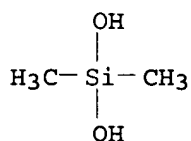
- RN 9016-00-6 HCAPLUS  
CN Poly[oxy(dimethylsilylene)] (8CI, 9CI) (CA INDEX NAME)



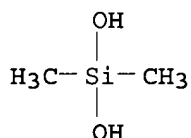
- RN 31900-57-9 HCAPLUS  
CN Silanediol, dimethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 1066-42-8  
CMF C2 H8 O2 Si



RN 31900-57-9 HCAPLUS  
 CN Silanediol, dimethyl-, homopolymer (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 1066-42-8  
 CMF C2 H8 O2 Si



RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L34 ANSWER 43 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN  
 AN 2002:539508 HCAPLUS  
 DN 137:98631  
 TI Cosmetic detergent compositions containing an amphoteric polysaccharide  
 and an insoluble conditioning agent  
 IN Fack, Geraldine; Restle, Serge; Dubief, Claude  
 PA L'Oreal, Fr.  
 SO PCT Int. Appl., 42 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA French  
 FAN.CNT 1

|    | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|----|---|------|----------|-----------------|----------|
| PI | WO 2002055053   | A2   | 20020718 | WO 2002-FR104   | 20020111 |
|    | WO 2002055053   | A3   | 20020829 |                 |          |
|    | W:  |      |          |                 |          |
|    | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, |      |          |                 |          |
|    | CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, |      |          |                 |          |
|    | GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, |      |          |                 |          |
|    | LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, |      |          |                 |          |
|    | PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, |      |          |                 |          |
|    | UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, |      |          |                 |          |
|    | TJ, TM  |      |          |                 |          |
|    | RW:   |      |          |                 |          |
|    | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, |      |          |                 |          |
|    | CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, |      |          |                 |          |
|    | BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  |      |          |                 |          |
|    | FR 2819405  | A1   | 20020719 | FR 2001-407     | 20010112 |
|    | FR 2819405  | B1   | 20041015 |                 |          |
|    | EP 1353646  | A2   | 20031022 | EP 2002-710980  | 20020111 |
|    | R:  |      |          |                 |          |
|    | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, |      |          |                 |          |
|    | IE, SI, LT, LV, FI, RO, MK, CY, AL, TR                          |      |          |                 |          |
|    | JP 2004520340   | T2   | 20040708 | JP 2002-555789  | 20020111 |
|    | US 2004102354   | A1   | 20040527 | US 2003-250888  | 20031230 |

PRAI FR 2001-407 A 20010112  
WO 2002-FR104 W 20020111

OS MARPAT 137:98631

AB The invention relates to novel **hair** detergent and conditioning compns. comprising, in a cosmetically acceptable medium, an anionic surfactant, an amphoteric surfactant, at least one amphoteric polysaccharide selected from among celluloses, inulins and guar gums and with at least one water-insol. conditioning agent selected from (A) synthetic oils, (B) silicones having a viscosity greater than or equal to 1,000 mm<sup>2</sup>/s, polysiloxanes, the general structure thereof comprising one or more organo-functional groups, (C) animal or vegetal oils, (D) waxes, (E) carboxylic acid esters, (F) ceramide-type compds. The inventive compns. are intended for **hair** care and cleaning. A **hair** preparation contained sodium lauryl ether sulfate 8, cocoyl betaine 2, polydimethyl siloxane 0.5, carboxymethyl-modified hydroxypropyl tri-Me ammonium guar chloride 1, and water q.s. 100 g.

IC ICM A61K007-50

CC 62-3 (Essential Oils and Cosmetics)

IT **Polysiloxanes**, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
([**(aminoethyl)amino**]propyl hydroxy, di-Me, trimethylsilyl-; cosmetic detergent compns. containing amphoteric polysaccharide and insol. conditioning agent)

IT **Hair** preparations  
(conditioners; cosmetic detergent compns. containing amphoteric polysaccharide and insol. conditioning agent)

IT **Hair** preparations  
(**dyes**; cosmetic detergent compns. containing amphoteric polysaccharide and insol. conditioning agent)

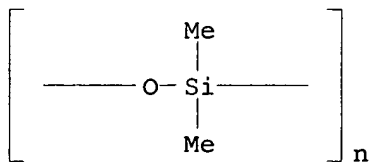
IT **Hair** preparations  
(permanent wave; cosmetic detergent compns. containing amphoteric polysaccharide and insol. conditioning agent)

IT 56-81-5D, Glycerol, tri(C6-C8-acyl) esters 81-13-0, Panthenol 106-24-1, Geraniol 111-42-2, Diethanolamine, biological studies 1562-00-1D, Sodium isethionate, cocoacyl derivs. 7376-31-0D, Triethanolamine sulfate, alkyl derivs. 7757-82-6D, Sodium sulfate, alkyl derivs. 7783-20-2D, Ammonium sulfate, alkyl derivs. 9000-30-0, Guar gum 9000-30-0D, Guar gum, reaction products with epoxypropyl trimethylammonium 9003-28-5D, Polybutene, hydrogenated 9003-29-6, Polybutene 9004-34-6, Cellulose, biological studies 9004-62-0D, Hydroxyethyl cellulose, quaternary ammonium derivs. 9005-80-5, Inulin **9016-00-6D**, Poly[oxy(dimethylsilylene)], dimethylsilanol-terminated **26062-79-3**, Diallyldimethyl ammonium chloride homopolymer 26590-05-6, Diallyldimethyl ammonium chloride-acrylamide copolymer 28791-69-7 29297-55-0, Vinylimidazole-vinylpyrrolidone copolymer 37309-58-3, Polydecene 37309-58-3D, Polydecene, hydrogenated 42557-10-8, Dow corning 200 54422-45-6 54482-09-6 67034-33-7D, carboxymethyl-modified 96673-02-8 110483-07-3 129426-19-3 138757-67-2, Carbopol 980 149591-38-8 150177-00-7 160065-31-6 206052-70-2 226923-62-2, Texapon nsw 245654-94-8  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(cosmetic detergent compns. containing amphoteric polysaccharide and insol. conditioning agent)

IT **9016-00-6D**, Poly[oxy(dimethylsilylene)], dimethylsilanol-terminated **26062-79-3**, Diallyldimethyl ammonium chloride homopolymer  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(cosmetic detergent compns. containing amphoteric polysaccharide and insol. conditioning agent)

RN 9016-00-6 HCAPLUS

CN Poly[oxy(dimethylsilylene)] (8CI, 9CI) (CA INDEX NAME)



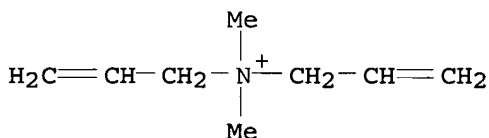
RN 26062-79-3 HCAPLUS

CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer  
(9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

CMF C8 H16 N . Cl

● Cl<sup>-</sup>

L34 ANSWER 44 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:539493 HCAPLUS

DN 137:98628

TI Cosmetic compositions containing a fructan and a cationic polymer and  
their uses

IN Fack, Geraldine; Pourille-Grethen, Chrystel; Restle, Serge

PA L'Oreal, Fr.

SO PCT Int. Appl., 47 pp.

CODEN: PIXXD2

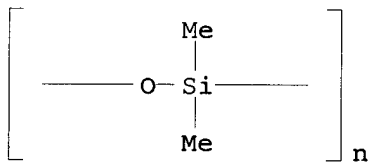
DT Patent

LA French

FAN.CNT 1

|            | PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE     |
|------------|--|------|----------|-----------------|----------|
| PI         | WO 2002055036  | A2   | 20020718 | WO 2002-FR108   | 20020111 |
|            | WO 2002055036  | A3   | 20020926 |                 |          |
| W:         | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM |      |          |                 |          |
| RW:        | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG   |      |          |                 |          |
| FR 2819404 |  | A1   | 20020719 | FR 2001-410     | 20010112 |

FR 2819404 B1 20041105  
 EP 1353634 A2 20031022 EP 2002-711942 20020111  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR  
 US 2004105832 A1 20040603 US 2003-466138 20031229  
 PRAI FR 2001-410 A 20010112  
 WO 2002-FR108 W 20020111  
 AB The invention concerns novel cosmetic compns. comprising in a cosmetically acceptable medium at least a fructan and at least a cationic polymer. Said combination provides a flow texture to cosmetic compns., said compns. are easily rinsed. Hair treated with said composition have a soft feel free of residues. Said compns. are used for washing and/or conditioning keratinous materials such as hair or skin. An after-shampoo contained inulin 3, behenyltrimethylammonium chloride 1.8, ethyltrimethylammonium methacrylate chloride 1.5, amodimethicone 1.7, and water q.s. 100 g.  
 IC ICM A61K007-06  
 CC 62-3 (Essential Oils and Cosmetics)  
 IT **Polysiloxanes**, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 ([**(aminoethyl)amino**]propyl hydroxy, di-Me; cosmetic compns. containing fructan and cationic polymer and their uses)  
 IT **Hair preparations**  
 (dyes; cosmetic compns. containing fructan and cationic polymer and their uses)  
 IT 5039-78-1 9000-30-0, Guar gum 9002-98-6 9004-34-6D, Cellulose, quaternary derivs. 9004-62-0, Hydroxyethyl cellulose 9004-82-4, Polyoxyethylene sodium lauryl ether sulfate 9005-80-5, Inulin 9016-00-6, Poly[oxy(dimethylsilylene)] 9037-90-5, Fructan 17301-53-0, Behenyltrimethylammonium chloride 24938-91-8, Salcare sc 95 26062-79-3, Polydiallyldimethylammonium chloride 26590-05-6, Acrylamide-diallyldimethylammonium chloride copolymer 26913-06-4, Poly[imino(1,2-ethanediyl)] 29297-55-0, Vinylimidazole vinylpyrrolidone copolymer 51277-96-4 81859-24-7, JR 400 116094-99-6, Rohagit kf 720 156906-54-6  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (cosmetic compns. containing fructan and cationic polymer and their uses)  
 IT 9016-00-6, Poly[oxy(dimethylsilylene)]  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (cosmetic compns. containing fructan and cationic polymer and their uses)  
 RN 9016-00-6 HCAPLUS  
 CN Poly[oxy(dimethylsilylene)] (8CI, 9CI) (CA INDEX NAME)



L34 ANSWER 45 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN  
 AN 2002:482634 HCAPLUS  
 DN 137:51990  
 TI Acidic **hair dye** compositions containing anionic and cationic polymers and surfactants  
 IN Ochiai, Masatoshi; Suzuki, Kazunobu  
 PA Shiseido Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE     |
|------|----------------|------|----------|-----------------|----------|
| PI   | JP 2002179538  | A2   | 20020626 | JP 2000-374681  | 20001208 |
| PRAI | JP 2000-374681 |      | 20001208 |                 |          |

AB The invention relates to an acidic **hair dye** composition providing improved **hair touch** after the **hair-dyeing** treatment, wherein the composition contains anionic polymer 0.01-5, cationic polymer 0.01-15, anionic surfactant and/or nonionic surfactant 0.01-5 %. An acidic **hair dye** composition containing carboxyvinyl polymer 0.01, Japan orange 205 0.01, Japan red 227 0.1, Japan black 401 0.05, Japan purple 401 0.01, Japan yellow 4 0.1, 1,3-butylene glycol 15, benzyl alc. 5, hydroxyethyl cellulose 1.5, fragrance 0.5, stearyltrimethylammonium chloride 0.1, a cationic polymer (Merquat 550) 2.5, polyoxyethylene oleyl ether (Emalex 550-P) 0.5,  $\alpha$ -olefinsulfonate 1, **methylpolysiloxane** 2, **amino-modified silicone** 0.1, soybean extract 0.1, wild oat extract 0.1, NaOH 0.02, and water balance to 100 % was prepared

IC ICM A61K007-13

CC 62-3 (Essential Oils and Cosmetics)

ST anionic cationic polymer surfactant acidic **hair dye**; carboxyvinyl polymer dimethyldiallylammonium chloride acrylamide copolymer **hair dye**

IT Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(acidic **hair dye** compns. containing anionic and cationic polymers and surfactants)

IT Sulfonic acids, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(alkene; acidic **hair dye** compns. containing anionic and cationic polymers and surfactants)

IT Vinyl compounds, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(carboxy-containing, polymers; acidic **hair dye** compns. containing anionic and cationic polymers and surfactants)

IT **Hair preparations**  
(**dyes**; acidic **hair dye** compns. containing anionic and cationic polymers and surfactants)

IT 9004-98-2, Polyoxyethylene oleyl ether  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(Emalex 550P; acidic **hair dye** compns. containing anionic and cationic polymers and surfactants)

IT 9003-01-4, Polyacrylic acid 26062-79-3, Merquat 100 26590-05-6, Merquat 550 42557-10-8 53633-54-8, Gafquat 755 81859-24-7, Polymer JR-400 **158465-66-8D**, methoxydimethylsilyl-terminated  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(acidic **hair dye** compns. containing anionic and cationic polymers and surfactants)

IT **158465-66-8D**, methoxydimethylsilyl-terminated  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(acidic **hair dye** compns. containing anionic and cationic polymers and surfactants)

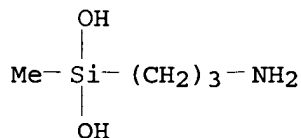
RN 158465-66-8 HCAPLUS

CN Silanediol, (3-aminopropyl)methyl-, polymer with dimethylsilanediol (9CI)  
(CA INDEX NAME)

CM 1

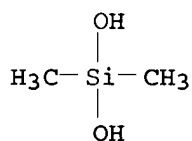


CRN 158465-65-7  
CMF C4 H13 N O2 Si



CM 2

CRN 1066-42-8  
CMF C2 H8 O2 Si



L34 ANSWER 46 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:113799 HCAPLUS

DN 136:172473

TI **Hair dye** compositions containing perfumes, silicones, and cationic direct **dyes**

IN Miyabe, Hajime

PA Kao Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 19 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

|      | PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE     |
|------|--|------|----------|-----------------|----------|
| PI   | JP 2002047151  | A2   | 20020212 | JP 2000-230896  | 20000731 |
| PRAI | JP 2000-230896   |      | 20000731 |                 |          |
| OS   | MARPAT 136:172473  |      |          |                 |          |
| AB   | The compns., which show high <b>dyeability</b> and long-lasting fragrances, contain perfumes showing Clog P value >1.5, silicones, and cationic direct <b>dyes</b> such as QZ:ZC6H2R3R4NR1R2-p.X- or Q''Z1:Z2T.X- (Z, Z1, Z2 = N, CH; R1-R4 = lower alkyl, etc.; Q, Q'' = cationic heterocyclic group; T = substituted Ph, etc.; X- = anion). A <b>hair dye</b> was prepared from Basic Red 51 0.1, KF 6005 (polyether-modified silicone) 1, 2,2,5-trimethyl-5-pentylcyclopentanone 0.1, EtOH 20, hydroxypropyl guar gum 1, phosphate buffer, and H2O to 100%. |      |          |                 |          |
| IC   | ICM A61K007-13   |      |          |                 |          |
| CC   | 62-3 (Essential Oils and <b>Cosmetics</b> )  |      |          |                 |          |
| ST   | <b>hair dye</b> cationic direct perfume silicone   |      |          |                 |          |
| IT   | <b>Polysiloxanes</b> , biological studies  |      |          |                 |          |
|      | RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)   |      |          |                 |          |
|      | ([ <b>(aminoethyl)amino</b> ]propyl hydroxy, di-Me; <b>hair dye</b> compns. containing perfumes, silicones, and cationic direct <b>dyes</b> )  |      |          |                 |          |

IT **Dyes**  
(cationic; **hair dye** compns. containing perfumes, silicones, and cationic direct **dyes**)

IT Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(di-Me, polyoxyethylene-, graft, KF 6005; **hair dye** compns. containing perfumes, silicones, and cationic direct **dyes**)

IT **Dyes**  
(direct; **hair dye** compns. containing perfumes, silicones, and cationic direct **dyes**)

IT **Hair preparations**  
(**dyes**; **hair dye** compns. containing perfumes, silicones, and cationic direct **dyes**)

IT Perfumes  
(**hair dye** compns. containing perfumes, silicones, and cationic direct **dyes**)

IT Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(**hair dye** compns. containing perfumes, silicones, and cationic direct **dyes**)

IT Polyamines  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(polyethylene-, polysiloxane-, N-acyl, block; **hair dye** compns. containing perfumes, silicones, and cationic direct **dyes**)

IT Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(polyethylenepolyamine-, N-acyl, block; **hair dye** compns. containing perfumes, silicones, and cationic direct **dyes**)

IT 97-53-0, 2-Methoxy-4-allylphenol 104-46-1, Anethole 106-22-9, 3,7-Dimethyl-6-octen-1-ol 138-86-3, p-Mentha-1,8-diene 140-67-0, Estragol 12270-25-6, C.I. Basic Red 51 32210-23-4, p-tert-Butylcyclohexyl acetate 54546-26-8, 2-Butyl-4,4,6-trimethyl-1,3-dioxane 61901-61-9, C.I. Basic Orange 31 65443-14-3, 2,2,5-Trimethyl-5-pentylcyclopentanone 116844-55-4, C.I. Basic Yellow 87 124899-75-8 136132-93-9 143711-48-2, SM 8702C 201273-97-4, Dimethylsilanediol-2-methyl-2-oxazoline block copolymer 396658-92-7  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(**hair dye** compns. containing perfumes, silicones, and cationic direct **dyes**)

IT 201273-97-4, Dimethylsilanediol-2-methyl-2-oxazoline block copolymer  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(**hair dye** compns. containing perfumes, silicones, and cationic direct **dyes**)

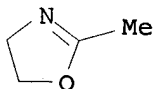
RN 201273-97-4 HCAPLUS

CN Silanediol, dimethyl-, polymer with 4,5-dihydro-2-methyloxazole, block (9CI) (CA INDEX NAME)

CM 1

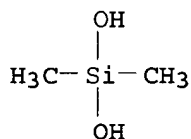
CRN 1120-64-5

CMF C4 H7 N O



CM 2

CRN 1066-42-8  
CMF C2 H8 O2 Si



L34 ANSWER 47 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:9833 HCAPLUS

DN 136:58513

TI Oxidative **hair dyes** containing  
aminoalkyldimethylpolysiloxane-polyethyloxazoline copolymers

IN Noecker, Bernd; Theis, Heinz; Kure, Naohisa

PA Goldwell GmbH, Germany; KPSS-KAO Professional Salon Services GmbH

SO Eur. Pat. Appl., 7 pp.

CODEN: EPXXDW

DT Patent

LA German

FAN.CNT 1

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|------|---|------|----------|-----------------|----------|
| PI   | EP 1166751  | A2   | 20020102 | EP 2001-113596  | 20010615 |
|      | EP 1166751  | A3   | 20031217 |                 |          |
|      | EP 1166751  | B1   | 20040915 |                 |          |
|      | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO |      |          |                 |          |
|      | AT 275921   | E    | 20041015 | AT 2001-113596  | 20010615 |
|      | ES 2225352  | T3   | 20050316 | ES 2001-1113596 | 20010615 |
| PRAI | DE 2000-10030097  | A    | 20000619 |                 |          |

AB The invention concerns **hair dyes** that contain  
quaternized aminoalkyldimethylpolysiloxane-polyethyloxazoline copolymers  
along with the dye precursors. Thus a two-component dye composition contained  
(weight/weight%) in the base: organopolysiloxane A-1 0.40; cetylstearyl alc.  
11.00; Oleth-5 5.00; oleic acid 2.50; stearic acid ethanolamide 2.50; coco  
fatty acid monoethanolamide 2.50; sodium lauryl sulfate 1.70; sodium  
sulfite 1.00; 1,2-propanediol 1.00; ascorbic acid 0.50; ammonium chloride  
0.50; EDTA tetrasodium 0.20; perfume 0.40; wheat protein hydrolyzate 0.20;  
silica 0.10. The dye component contained: 2,5,6-triamino-4-  
hydroxypyrimidine sulfate 0.01; 2,5-diaminotoluene sulfate 0.55;  
4-chlororesorcin 0.17; resorcin 0.05; 3-aminophenol 0.03; ammonia q.s;  
water to 100.

IC ICM A61K007-13

CC 62-3 (Essential Oils and Cosmetics)

ST oxidative **hair dye** aminoalkyldimethylpolysiloxane  
polyethyloxazoline copolymer

IT **Hair** preparations(dyes, oxidative; oxidative **hair dyes**

containing aminoalkyldimethylpolysiloxane-polyethyloxazoline copolymers)

IT Polyamines

Polysiloxanes, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(oxidative **hair dyes** containing

aminoalkyldimethylpolysiloxane-polyethyloxazoline copolymers)

IT 90-15-3, 1-Naphthol 95-88-5, 4-Chlororesorcin 108-46-3, Resorcin, biological studies 591-27-5, 3-Aminophenol 615-50-9, 2,5-Diaminotoluene sulfate 2687-97-0D, 2-Pyrrolidinone, 1-(2-propenyl)-, reaction products with siloxanes 7730-42-9D, 1-Azetidinepropanoic acid, ethyl ester, reaction products with siloxanes 9016-00-6D, Polydimethyl siloxane, aminoalkyl, polyethyloxazoline/olefin polymer derivs. 10431-98-8 25037-42-7D, reaction products with siloxanes 25608-23-5D, reaction products with siloxanes 26793-36-2D, reaction products with siloxanes 31900-57-9D, Polydimethyl siloxane, aminoalkyl, polyethyloxazoline/olefin polymer derivs. 33631-05-9, 2-Amino-4-hydroxypyridine 39267-74-8, 2,5,6-Triamino-4-hydroxypyrimidine sulfate

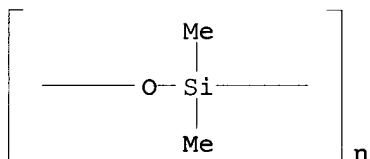
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(oxidative hair dyes containing organopolysiloxanes)

IT 9016-00-6D, Polydimethyl siloxane, aminoalkyl, polyethyloxazoline/olefin polymer derivs. 31900-57-9D, Polydimethyl siloxane, aminoalkyl, polyethyloxazoline/olefin polymer derivs.

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(oxidative hair dyes containing organopolysiloxanes)

RN 9016-00-6 HCAPLUS

CN Poly[oxy(dimethylsilylene)] (8CI, 9CI) (CA INDEX NAME)



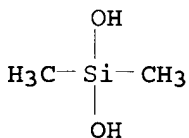
RN 31900-57-9 HCAPLUS

CN Silanediol, dimethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 1066-42-8

CMF C2 H8 O2 Si



L34 ANSWER 48 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:9832 HCAPLUS

DN 136:58512

TI Hair dyes containing aminoalkyldimethylpolysiloxane-polyethyloxazoline copolymers

IN Noecker, Bernd; Theis, Heinz; Kure, Naohisa

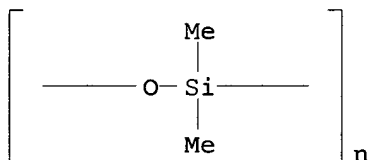
PA Goldwell G.m.b.H., Germany; KPSS-KAO Professional Salon Services GmbH

SO Eur. Pat. Appl., 12 pp.

CODEN: EPXXDW

DT Patent  
LA German  
FAN.CNT 1

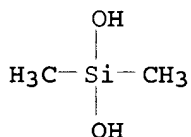
|      | PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE     |
|------|--|------|----------|-----------------|----------|
| PI   | EP 1166750   | A2   | 20020102 | EP 2001-113595  | 20010615 |
|      | EP 1166750   | A3   | 20040102 |                 |          |
|      | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO  |      |          |                 |          |
| PRAI | DE 2000-10030096   | A    | 20000619 |                 |          |
| AB   | The invention concerns <b>hair dyes</b> that contain direct dyes and quaternized aminoalkyldimethylpolysiloxane-polyethyloxazoline copolymers. Thus a composition contained (weight/weight%): organopolysiloxane A-1 0.10; dimethicone copolyol 1.50; ethanol 5.00; propylene carbonate 25; lactic acid (90%) 5.00; sodium hydroxide (32%) 0.20; Polyquaternium-37 50% in Salcare SC96 3.50; Acid Orange 7 0.15; Acid Yellow 3 0.10; Acid Violet 43 0.25; water to 100; pH 3.0.  |      |          |                 |          |
| IC   | ICM A61K007-13   |      |          |                 |          |
| CC   | 62-3 (Essential Oils and Cosmetics)  |      |          |                 |          |
| ST   | direct <b>hair dye</b> aminoalkyldimethylpolysiloxane polyethyloxazoline copolymer   |      |          |                 |          |
| IT   | <b>Dyes</b><br>(direct; <b>hair dyes</b> containing aminoalkyldimethylpolysiloxane-polyethyloxazoline copolymers)  |      |          |                 |          |
| IT   | <b>Hair preparations</b><br>( <b>dyes; hair dyes</b> containing aminoalkyldimethylpolysiloxane-polyethyloxazoline copolymers)  |      |          |                 |          |
| IT   | Polyamines<br>RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)<br>( <b>hair dyes</b> containing aminoalkyldimethylpolysiloxane-polyethyloxazoline copolymers)  |      |          |                 |          |
| IT   | 477-73-6, Basic Red 2 633-96-5, Acid orange 7 2687-97-0D, reaction products with <b>siloxanes</b> 2871-01-4, HC Red 3 4430-18-6, Acid violet 43 8004-92-0, Acid yellow 3 9016-00-6D, Polydimethyl <b>siloxane, aminoalkyl</b> , polyethyloxazoline /olefin polymer derivs. 10431-98-8D, Oxazole, 2-ethyl-4,5-dihydro-, reaction products with <b>siloxanes</b> 25037-42-7D, reaction products with <b>siloxanes</b> 25608-23-5D, reaction products with <b>siloxanes</b> 26381-41-9, Basic brown 16 26793-36-2D, reaction products with <b>siloxanes</b> 31900-57-9D, Polydimethyl <b>siloxane, aminoalkyl</b> , polyethyloxazoline /olefin polymer derivs. 56932-44-6, HC Yellow 5 68123-13-7, Basic blue 99 68391-31-1, Basic yellow 57 176742-32-8, Basic brown 17<br>RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)<br>( <b>hair dyes</b> containing aminoalkyldimethylpolysiloxane-polyethyloxazoline copolymers) |      |          |                 |          |
| IT   | 9016-00-6D, Polydimethyl <b>siloxane, aminoalkyl</b> , polyethyloxazoline /olefin polymer derivs. 31900-57-9D, Polydimethyl <b>siloxane, aminoalkyl</b> , polyethyloxazoline /olefin polymer derivs.<br>RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)<br>( <b>hair dyes</b> containing aminoalkyldimethylpolysiloxane-polyethyloxazoline copolymers)  |      |          |                 |          |
| RN   | 9016-00-6 HCAPLUS  |      |          |                 |          |
| CN   | Poly[oxy(dimethylsilylene)] (8CI, 9CI) (CA INDEX NAME)   |      |          |                 |          |



RN 31900-57-9 HCAPLUS  
 CN Silanediol, dimethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 1066-42-8  
 CMF C2 H8 O2 Si



L34 ANSWER 49 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2001:864687 HCAPLUS

DN 136:10878

TI Oxidative **hair dyes** containing organopolysiloxanes

PA Goldwell GmbH, Germany

SO Ger. Gebrauchsmusterschrift, 16 pp.

CODEN: GGXXFR

DT Patent

LA German

FAN.CNT 1

|      | PATENT NO.       | KIND | DATE     | APPLICATION NO.  | DATE     |
|------|------------------|------|----------|------------------|----------|
| PI   | DE 20010877      | U1   | 20011129 | DE 2000-20010877 | 20000619 |
| PRAI | DE 2000-20010877 |      | 20000619 |                  |          |

AB The invention concerns **hair dyes** that contain aminoalkyldimethylpolysiloxane-polyethyloxazoline copolymers along with the dye precursors. Thus a two-component dye composition contained (weight/weight%) in the base: organopolysiloxane A-1 0.40; cetylstearyl alc. 11.00; Oleth-5 5.00; oleic acid 2.50; stearic acid ethanolamide 2.50; coco fatty acid monoethanolamide 2.50; sodium lauryl sulfate 1.70; sodium sulfite 1.00; 1,2-propanediol 1.00; ascorbic acid 0.50; ammonium chloride 0.50; EDTA tetrasodium 0.20; perfume 0.40; wheat protein hydrolyzate 0.20; silica 0.10. The dye component contained: 2,5,6-triamino-4-hydroxypyrimidine sulfate 0.01; 2,5-diaminotoluene sulfate 0.55; 4-chlororesorcin 0.17; resorcin 0.05; 3-aminophenol 0.03; ammonia q.s; water to 100.

IC ICM A61K007-13

ICS C08G077-26

CC 62-3 (Essential Oils and **Cosmetics**)

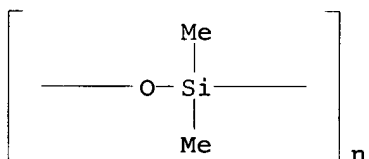
ST oxidative **hair dye** organopolysiloxane

IT Polyamines

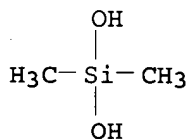
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(N-alkyleneimines, siloxane graft copolymers; oxidative **hair**

- dyes containing organopolysiloxanes)**
- IT Polysiloxanes, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (alkylamino, di-Me; oxidative **hair dyes** containing organopolysiloxanes)
- IT **Hair preparations**  
 (**dyes**, oxidative; oxidative **hair dyes** containing organopolysiloxanes)
- IT 90-15-3, 1-Naphthol 95-88-5, 4-Chlororesorcin 108-46-3, Resorcin, biological studies 591-27-5, 3-Aminophenol 615-50-9, 2,5-Diaminotoluene sulfate 2687-97-0D, reaction products with siloxanes 7730-42-9D, reaction products with siloxanes **9016-00-6D**, Polydimethyl **siloxane**, **aminoalkyl**, polyethyloxazoline/olefin polymer derivs. 10431-98-8 25037-42-7D, reaction products with siloxanes 25608-23-5D, reaction products with siloxanes 26793-36-2D, reaction products with siloxanes **31900-57-9D**, Polydimethyl **siloxane**, **aminoalkyl**, polyethyloxazoline/olefin polymer derivs. 33631-05-9, 2-Amino-4-hydroxypyridine 39267-74-8, 2,5,6-Triamino-4-hydroxypyrimidine sulfate  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (oxidative **hair dyes** containing organopolysiloxanes)
- IT **9016-00-6D**, Polydimethyl **siloxane**, **aminoalkyl**, polyethyloxazoline/olefin polymer derivs. **31900-57-9D**, Polydimethyl **siloxane**, **aminoalkyl**, polyethyloxazoline/olefin polymer derivs.  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (oxidative **hair dyes** containing organopolysiloxanes)
- RN 9016-00-6 HCAPLUS  
 CN Poly[oxy(dimethylsilylene)] (8CI, 9CI) (CA INDEX NAME)



- RN 31900-57-9 HCAPLUS  
 CN Silanediol, dimethyl-, homopolymer (9CI) (CA INDEX NAME)
- CM 1
- CRN 1066-42-8  
 CMF C2 H8 O2 Si



L34 ANSWER 50 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2001:864686 HCAPLUS

DN 136:10877

TI **Hair dyes** containing organopolysiloxanes

PA Goldwell GmbH, Germany

SO Ger. Gebrauchsmusterschrift, 25 pp.

CODEN: GGXXFR

DT Patent

LA German

FAN.CNT 1

|      | PATENT NO.       | KIND | DATE     | APPLICATION NO.  | DATE     |
|------|------------------|------|----------|------------------|----------|
| PI   | DE 20010875      | U1   | 20011129 | DE 2000-20010875 | 20000619 |
| PRAI | DE 2000-20010875 |      | 20000619 |                  |          |

AB The invention concerns **hair dyes** that contain aminoalkyldimethylpolysiloxane-polyethyloxazoline copolymers along with the dye compds. Thus a composition contained (weight/weight%): organopolysiloxane A-1 0.10; dimethicone copolyol 1.50; ethanol 5.00; propylene carbonate 25; lactic acid (90%) 5.00; sodium hydroxide (32%) 0.20; Polyquaternium-37 50% in Salcare SC96 3.50; Acid Orange 7 0.15; Acid Yellow 3 0.10; Acid Violet 43 0.25; water to 100; pH 3.0.

IC ICM A61K007-13

ICS C08G077-26

CC 62-3 (Essential Oils and **Cosmetics**)ST **hair dye** organopolysiloxane

IT Polyamines

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(N-alkyleneimines, siloxane graft copolymers; **hair dyes** containing organopolysiloxanes)

IT **Polysiloxanes**, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(aminoalkyl, di-Me; **hair dyes** containing organopolysiloxanes)

IT **Hair** preparations

(**dyes**; **hair dyes** containing organopolysiloxanes)

IT 633-96-5, Acid Orange 7 2687-97-0D, reaction products with siloxanes 4430-18-6, Acid Violet 43 7730-42-9D, reaction products with siloxanes 8004-92-0, Acid Yellow 3 9016-00-6D, Polydimethyl siloxane, aminoalkyl, polyethyloxazoline/olefin polymer derivs. 10431-98-8D, reaction products with siloxanes 25037-42-7D, reaction products with siloxanes 25608-23-5D, reaction products with siloxanes 26793-36-2D, reaction products with siloxanes 31900-57-9D, Polydimethyl siloxane, aminoalkyl, polyethyloxazoline/olefin polymer derivs.

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(**hair dyes** containing organopolysiloxanes)

IT 9016-00-6D, Polydimethyl siloxane, aminoalkyl, polyethyloxazoline/olefin polymer derivs. 31900-57-9D, Polydimethyl siloxane, aminoalkyl, polyethyloxazoline/olefin polymer derivs.

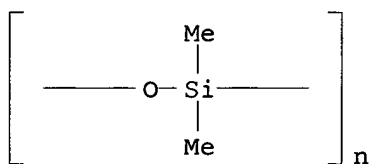
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(**hair dyes** containing organopolysiloxanes)

RN 9016-00-6 HCAPLUS

CN Poly[oxy(dimethylsilylene)] (8CI, 9CI) (CA INDEX NAME)

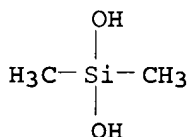




RN 31900-57-9 HCAPLUS  
 CN Silanediol, dimethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 1066-42-8  
 CMF C2 H8 O2 Si



L34 ANSWER 51 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2001:729699 HCAPLUS

DN 135:293675

TI **Hair dye** fixatives

IN Kawasoe, Tomoyuki; Ochiai, Masatoshi

PA Shiseido Co., Ltd., Japan

SO Eur. Pat. Appl., 40 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|------|---|------|----------|-----------------|----------|
| PI   | EP 1138317  | A2   | 20011004 | EP 2001-108164  | 20010330 |
|      | EP 1138317  | A3   | 20020821 |                 |          |
|      | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO |      |          |                 |          |
|      | US 2001042276   | A1   | 20011122 | US 2001-819605  | 20010329 |
|      | CN 1321461  | A    | 20011114 | CN 2001-117388  | 20010330 |
|      | JP 2001342120   | A2   | 20011211 | JP 2001-102407  | 20010330 |
|      | JP 2001342121   | A2   | 20011211 | JP 2001-102410  | 20010330 |
| PRAI | JP 2000-95023   | A    | 20000330 |                 |          |

AB The present invention provides a **hair dye** fixative comprising a complex nucleus capable of forming a complex with an acid **dye**, a **hair dye** using the **hair dye** fixative and a **hair dyeing** method having an extremely low skin irritating effect and a high **hair dyeing** performance without giving any damage on a hair. By the addition of xyloglucan, silicone and an acid in the **hair dye** fixative and the **hair dye**, high stability and handling performance, smooth touch of hair after application and much improvement of **dyeing** ability and color-sustaining ability are obtained. Thus, a **hair dye** formulation contained xyloglucan 5.0, Naphthol Blue Black (D & C Black No.1) 0.2, Alizurool

Purple (EXT. D & C Violet No.2) 0.3, Sunset Yellow FCF (FD & C Yellow No.6) 0.1, benzyl alc. 5.0, CaCl<sub>2</sub>·2H<sub>2</sub>O 0.6, octyl polyglycoside 1.0, tetrahydrofurfuryl alc. 12.0, hydrolyzed keratin 0.1, lactic acid 2.0, perfume qs, and water to 100%.

IC ICM A61K007-13

CC 62-3 (Essential Oils and Cosmetics)

ST hair dye fixative polysiloxane xyloglucan

IT Polysiloxanes, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(amino; hair dye fixatives)

IT Hair preparations

(dyes; hair dye fixatives)

IT Carboxylic acids, biological studies

Polysiloxanes, biological studies

Salts, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(hair dye fixatives)

IT Carboxylic acids, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(hydroxy; hair dye fixatives)

IT Polysiloxanes, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(polyoxyalkylene-, graft; hair dye fixatives)

IT Polysiloxanes, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(polyoxyalkylene-; hair dye fixatives)

IT Polyoxyalkylenes, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(polysiloxane-, graft; hair dye fixatives)

IT Polyoxyalkylenes, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(polysiloxane-; hair dye fixatives)

IT 50-21-5, Lactic acid, biological studies 64-17-5, Ethanol, biological studies 67-63-0, 2-Propanol, biological studies 71-23-8, 1-Propanol, biological studies 71-36-3, 1-Butanol, biological studies 72-17-3, Sodium lactate 77-92-9, Citric acid, biological studies 78-83-1, Isobutanol, biological studies 79-14-1, Glycolic acid, biological studies 7429-90-5, Aluminum, biological studies 7446-70-0, Aluminum chloride (AlCl<sub>3</sub>), biological studies 7784-13-6, Aluminum chloride hexahydrate 31230-04-3D, Methylphenylsilanediol homopolymer, trimethylsilyl terminated 31900-57-9D, Dimethylsilanediol homopolymer, trimethylsilyl terminated 37294-28-3, Xyloglucan 42557-10-8 156048-34-9D, Dimethylsilanediol-diphenylsilanediol copolymer, trimethylsilyl terminated 364335-07-9D, trimethylsilyl terminated 364335-09-1D, trimethylsilyl terminated 364335-11-5 364335-11-5D, trimethylsilyl terminated

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(hair dye fixatives)

IT 31900-57-9D, Dimethylsilanediol homopolymer, trimethylsilyl terminated 364335-09-1D, trimethylsilyl terminated 364335-11-5 364335-11-5D, trimethylsilyl terminated

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES

(Uses)

(hair dye fixatives)

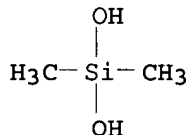
RN 31900-57-9 HCAPLUS

CN Silanediol, dimethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 1066-42-8

CMF C2 H8 O2 Si



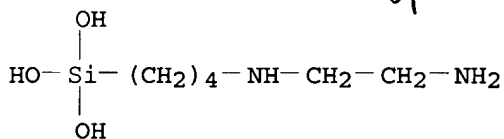
RN 364335-09-1 HCAPLUS

CN Silanetriol, [4-[(2-aminoethyl)amino]butyl]-, polymer with dimethylsilanediol (9CI) (CA INDEX NAME)

CM 1

CRN 364335-08-0

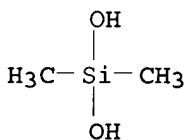
CMF C6 H18 N2 O3 Si



CM 2

CRN 1066-42-8

CMF C2 H8 O2 Si



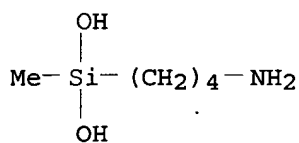
RN 364335-11-5 HCAPLUS

CN Silanediol, (4-aminobutyl)methyl-, polymer with dimethylsilanediol (9CI) (CA INDEX NAME)

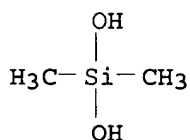
CM 1

CRN 364335-10-4

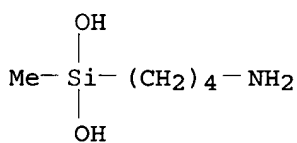
CMF C5 H15 N O2 Si



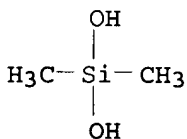
CM 2

CRN 1066-42-8  
CMF C2 H8 O2 SiRN 364335-11-5 HCAPLUS  
CN Silanediol, (4-aminobutyl)methyl-, polymer with dimethylsilanediol (9CI)  
(CA INDEX NAME)

CM 1

CRN 364335-10-4  
CMF C5 H15 N O2 Si

CM 2

CRN 1066-42-8  
CMF C2 H8 O2 SiL34 ANSWER 52 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN  
AN 2001:587225 HCAPLUS  
DN 135:185205  
TI Compositions for hair treatment agents  
IN Ota, Toshio; Aga, Michihiro; Watanabe, Katsuhiko  
PA Sanei Kagaku Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 17 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 2

|      | PATENT NO.     | KIND | DATE            | APPLICATION NO. | DATE     |
|------|----------------|------|-----------------|-----------------|----------|
| PI   | JP 2001220334  | A2   | 20010814        | JP 2001-99824   | 20010330 |
|      | US 2003103925  | A1   | 20030605        | US 2002-106361  | 20020327 |
|      | US 6835375     | B2   | 20041228        |                 |          |
|      | US 2005095214  | A1   | 20050505        | US 2004-998928  | 20041130 |
| PRAI | JP 2001-99821  | A    | 20010330        |                 |          |
|      | JP 2001-99824  | A    | 20010330        |                 |          |
|      | US 2002-106361 | A1   | <u>20020327</u> |                 |          |

AB The compns., for hair conditioners, **dyes**, wave-setting preps., hair-styling preps., emulsion stabilizers, and hair-smoothing agents, contain nonionic surfactants, silicones, and/or polymers. A hair conditioner containing Me polysiloxane showed hair-smoothing and -softening effect.

IC ICM A61K007-13

ICS A61K007-06; A61K007-09; A61K007-135

CC 62-4 (Essential Oils and Cosmetics)

ST hair conditioner **dye** nonionic surfactant silicone; polymer hair wave setting emulsion stabilizer

IT Hair preparations

(**dyes**; hair treatment compns. containing nonionic surfactants, silicones, and/or polymers)

IT 93-83-4, Oleic acid diethanolamide 541-02-6, Decamethylcyclopentasiloxane 1338-41-6, Sorbitan monostearate 1338-43-8, Sorbitan monooleate 8007-43-0, Sorbitan sesquioleate 9002-92-0, Polyoxyethylene lauryl ether 9003-11-6, Ethylene oxide-propylene oxide copolymer 9003-39-8, Poly(vinylpyrrolidone) 9003-53-6, Polystyrene 9004-62-0, Hydroxyethyl cellulose 9004-95-9, Polyoxyethylene cetyl ether 9004-98-2, Polyoxyethylene oleyl ether 9005-12-3, Methylphenylsilanediol homopolymer, sru 9005-65-6, Polyoxyethylene sorbitan monooleate 9016-45-9, Polyoxyethylene nonylphenyl ether 25322-68-3, Polyethylene glycol 25322-68-3D, Polyethylene glycol, derivs. 31230-04-3, Methylphenylsilanediol homopolymer **156623-21-1**, Aminoethylaminopropylmethylsilanediol-dimethylsilanediol copolymer 159978-43-5

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(**hair** treatment compns. containing nonionic surfactants, silicones, and/or polymers)

IT **156623-21-1**, Aminoethylaminopropylmethylsilanediol-dimethylsilanediol copolymer

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(**hair** treatment compns. containing nonionic surfactants, silicones, and/or polymers)

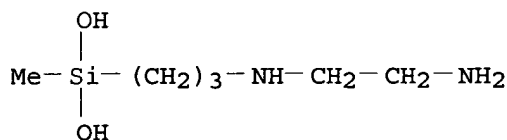
RN 156623-21-1 HCAPLUS

CN Silanediol, [3-[(2-aminoethyl)amino]propyl]methyl-, polymer with dimethylsilanediol (9CI) (CA INDEX NAME)

CM 1

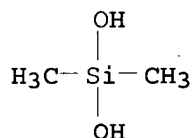
CRN 83145-66-8

CMF C6 H18 N2 O2 Si



CM 2

CRN 1066-42-8  
CMF C2 H8 O2 Si



L34 ANSWER 53 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2001:145152 HCAPLUS

DN 134:197853

TI Personal care composition containing a homogeneous terpolymer of an  
N-vinyl lactam and a polysiloxane

IN Liu, Kou-Chang; Shih, Jenn S.

PA ISP Investments Inc., USA

SO U.S., 7 pp., Cont.-in-part of U.S. Ser. No. 14,464, abandoned.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 2

|      | PATENT NO.    | KIND | DATE     | APPLICATION NO. | DATE     |
|------|---------------|------|----------|-----------------|----------|
| PI   | US 6193961    | B1   | 20010227 | US 2000-495129  | 20000201 |
| PRAI | US 1998-14464 | B2   | 19980128 |                 |          |

AB Disclosed is a homogeneous terpolymer of random monomer distribution containing (a) an N-vinyl lactam 32-90 % (b) a mono- or di-functional polysiloxane 0.5-20 %, and (c) quaternized or non-quaternized dimethylaminoalkyl acrylate, methacrylate, acrylamide or methacrylamide combined to form a 100% terpolymer having an excess of vinyl lactam moiety with respect to (c); which terpolymer is useful in a personal care applications, particularly as a hair fixative and conditioner where colorless and clear film forming properties of the terpolymer provides a superior silky, lustrous appearance to the hair without altering hair color or shade, particularly without alteration to dyed or bleached hair. Vinylpyrrolidone-dimethylaminopropylmethacrylamide-Witico Y-14225 (acrylated siloxane polyalkylene oxide copolymer) terpolymer (74:20:6) was prepared. A hair spray contained the above polymer (45 % active in ethanol) 8.9, water 41, and ethanol 50.1 %.

IC ICM A61K007-075

ICS A61K031-79

INCL 424070120

CC 62-3 (Essential Oils and Cosmetics)

IT 88-12-0DP, polymers with dimethylaminopropylmethacrylamide and polyoxyalkylene-polysiloxane acrylates 67296-21-3DP, Dimethylaminopropylmethacrylamide, polymers with vinylpyrrolidone and polyoxyalkylene-polysiloxane acrylates 327610-73-1P 327610-76-4P

327610-78-6P 327622-21-9P

RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)

(hair preps. containing terpolymer of N-vinyl lactam and acrylates and polysiloxanes)

IT 327610-76-4P 327610-78-6P

RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)

(hair preps. containing terpolymer of N-vinyl lactam and acrylates and polysiloxanes)

RN 327610-76-4 HCAPLUS

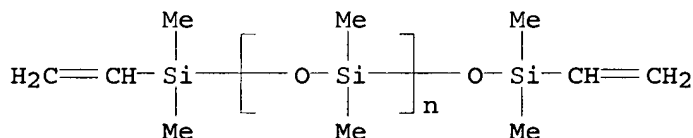
CN 2-Propenoic acid, 2-methyl-, 2-(diethylamino)ethyl ester, polymer with  $\alpha$ -(ethenyldimethylsilyl)- $\omega$ -[(ethenyldimethylsilyl)oxy]poly[oxy(dimethylsilylene)], 1-ethenylhexahydro-2H-azepin-2-one and 1-ethenyl-2-pyrrolidinone, graft (9CI) (CA INDEX NAME)

CM 1

CRN 59942-04-0

CMF (C2 H6 O Si)<sub>n</sub> C8 H18 O Si2

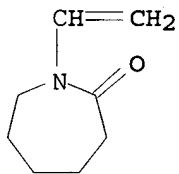
CCI PMS



CM 2

CRN 2235-00-9

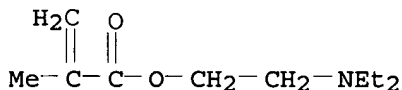
CMF C8 H13 N O



CM 3

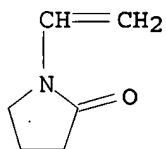
CRN 105-16-8

CMF C10 H19 N O2



CM 4

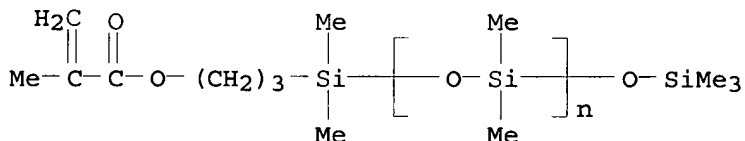
CRN 88-12-0  
CMF C6 H9 N O



RN 327610-78-6 HCAPLUS  
CN 2-Propenamide, N-[(dimethylamino)propyl]-2-methyl-, polymer with  
α-[dimethyl[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]silyl]-ω-  
[(trimethylsilyl)oxy]poly[oxy(dimethylsilylene)] and 1-ethenyl-2-  
pyrrolidinone, graft (9CI) (CA INDEX NAME)

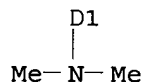
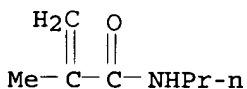
CM 1

CRN 123109-42-2  
CMF (C2 H6 O Si)<sub>n</sub> C12 H26 O3 Si2  
CCI PMS



CM 2

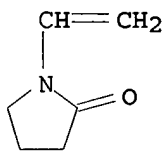
CRN 67296-21-3  
CMF C9 H18 N2 O  
CCI IDS



CM 3

CRN 88-12-0  
CMF C6 H9 N O





RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L34 ANSWER 54 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2000:351343 HCAPLUS

DN 133:8866

TI Cosmetic compositions containing an anionic alkylpolyglycoside ester  
surfactant and an organically modified silicone

IN Cauwet-Martin, Daniele; Restle, Serge

PA L'Oreal, Fr.

SO PCT Int. Appl., 33 pp.

CODEN: PIXXD2

DT Patent

LA French

FAN.CNT 1

|      | PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE     |
|------|--|------|----------|-----------------|----------|
| PI   | WO 2000028964  | A1   | 20000525 | WO 1999-FR2436  | 19991011 |
|      | W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  |      |          |                 |          |
|      | RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG   |      |          |                 |          |
|      | FR 2785796   | A1   | 20000519 | FR 1998-14214   | 19981112 |
|      | FR 2785796   | B1   | 20021129 |                 |          |
|      | AU 9960942   | A1   | 20000605 | AU 1999-60942   | 19991011 |
|      | EP 1047402   | A1   | 20001102 | EP 1999-947530  | 19991011 |
|      | EP 1047402   | B1   | 20030312 |                 |          |
|      | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI  |      |          |                 |          |
|      | AT 234073  | E    | 20030315 | AT 1999-947530  | 19991011 |
|      | ES 2195615   | T3   | 20031201 | ES 1999-947530  | 19991011 |
| PRAI | FR 1998-14214  | A    | 19981112 |                 |          |
|      | WO 1999-FR2436   | W    | 19991011 |                 |          |
| AB   | The invention concerns novel cosmetic compns. comprising in a cosmetically acceptable medium at least an anionic surfactant such as a carboxylic alkylpolyglycoside ester and at least a silicone selected among: (i) polyorganosiloxanes, comprising in their general structure, one or several organofunctional groups directly fixed on the siloxane chain or fixed via a hydrocarbon radical; (ii) block linear polysiloxane (A)-polyoxyalkylene (B) of (A-B) <sub>n</sub> type copolymers with n > 3; (iii) grafted silicone polymers, with non-silicone organic skeleton, consisting of a main chain formed from organic monomers not containing silicone, whereon is grafted, inside said chain and optionally at one of the ends thereof, at least a polysiloxane macromonomer; (iv) grafted silicone polymers, with polysiloxane skeleton grafted with non-silicone organic monomers, comprising a main polysiloxane chain whereon is grafted, inside said chain and optionally at one of the ends thereof, at least an organic macromonomer not comprising silicone; (v) |      |          |                 |          |

or their mixts. A shampoo contained 30% disodium cocoglucoside citrate 15.5, Eucarol AEG (aminosilicone) 2.7, Jaguar C13S 0.2, a mixture of cetyl alc. and 1-(hexadecyloxy)-2-octadecanol 2.5, citric acid 5, and water q.s. 100 g.

IC ICM A61K007-50

ICS A61K007-06; A61K007-48

CC 62-3 (Essential Oils and Cosmetics)

IT Polysiloxanes, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

((aminoethyl)amino]propyl hydroxy, di-Me, trimethylsilyl-terminated; cosmetic compns. containing anionic alkylpolyglycoside ester surfactant and organically modified silicone)

IT Polysiloxanes, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

((aminoethyl)amino]propyl hydroxy, di-Me; cosmetic compns. containing anionic alkylpolyglycoside ester surfactant and organically modified silicone)

IT Hair preparations

(dyes; cosmetic compns. containing anionic alkylpolyglycoside ester surfactant and organically modified silicone)

IT 81-13-0, Panthenol 9016-00-6, Polydimethylsiloxane

31900-57-9, Polydimethylsiloxane 36332-93-1, Methyl

18-eicosanoic acid 203341-07-5, Dow corning 939 270258-23-6, Eucarol AGE-SS

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(cosmetic compns. containing anionic alkylpolyglycoside ester surfactant and organically modified silicone)

IT 9016-00-6, Polydimethylsiloxane 31900-57-9,

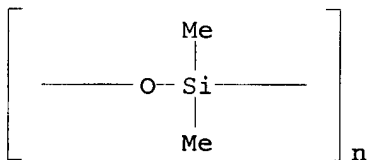
Polydimethylsiloxane

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(cosmetic compns. containing anionic alkylpolyglycoside ester surfactant and organically modified silicone)

RN 9016-00-6 HCAPLUS

CN Poly[oxy(dimethylsilylene)] (8CI, 9CI) (CA INDEX NAME)



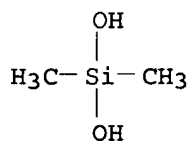
RN 31900-57-9 HCAPLUS

CN Silanediol, dimethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 1066-42-8

CMF C2 H8 O2 Si



RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L34 ANSWER 55 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1999:361779 HCAPLUS

DN 131:63207

TI Acidic hair **dyes**

IN Kaminuma, Mikiko; Abe, Koji; Miyanohara, Reiji; Uehara, Kazuichi; Yasuda, Masaaki; Suzuki, Kazunobu

PA Shiseido Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 18 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

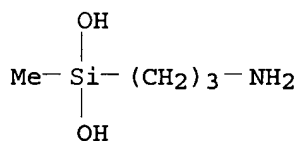
FAN.CNT 1

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|------|---|------|----------|-----------------|----------|
| PI   | JP 11152215   | A2   | 19990608 | JP 1997-337667  | 19971121 |
| PRAI | JP 1997-337667  |      | 19971121 |                 |          |
| AB   | Acidic hair <b>dyes</b> showing excellent viscosity and pH stability, fluidity and moisturizing effects comprise xyloglucan but practically contain no fluidity improvers. The compns. also contain organic solvents such as n-methylpyrrolidone and ethylene carbonate and silicones. Acidic hair <b>dye</b> contained black color 401 0.2, purple color 401 0.3, yellow color 4 0.3, hexyl alc. 5.0, xyloglucan 4.0, citric acid 2.0 and ion-exchanged water to 100 parts [pH 4.0]. |      |          |                 |          |
| IC   | ICM A61K007-13  |      |          |                 |          |
| CC   | 62-3 (Essential Oils and Cosmetics)   |      |          |                 |          |
| ST   | acidic hair <b>dye</b> xyloglucan silicone  |      |          |                 |          |
| IT   | Polysiloxanes, biological studies   |      |          |                 |          |
|      | RL: BUU (Biological use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses) (acidic hair <b>dyes</b> )  |      |          |                 |          |
| IT   | Hair preparations   |      |          |                 |          |
|      | (dyes, acidic; acidic <b>dyeing</b> hair agent composition [MT].)   |      |          |                 |          |
| IT   | Solvents  |      |          |                 |          |
|      | (organic; acidic hair <b>dyes</b> )   |      |          |                 |          |
| IT   | 57-55-6, 1,2-Propanediol, biological studies 96-49-1, Ethylene carbonate 97-99-4, Tetrahydrofurfuryl alcohol 107-88-0, 1,3-Butylene glycol 109-86-4, Methyl cellosolve 110-80-5, Ethyl cellosolve 111-77-3, Methyl carbitol 111-90-0, Ethyl carbitol 872-50-4, n-Methylpyrrolidone, biological studies 25265-71-8, Dipropylene glycol 37294-28-3, Xyloglucan 42557-10-8 42557-11-9 156549-36-9 158465-66-8 228091-05-2  |      |          |                 |          |
|      | RL: BUU (Biological use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses) (acidic hair <b>dyes</b> )  |      |          |                 |          |
| IT   | 158465-66-8 228091-05-2   |      |          |                 |          |
|      | RL: BUU (Biological use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses) (acidic hair <b>dyes</b> )  |      |          |                 |          |

RN 158465-66-8 HCAPLUS  
CN Silanediol, (3-aminopropyl)methyl-, polymer with dimethylsilanediol (9CI)  
(CA INDEX NAME)

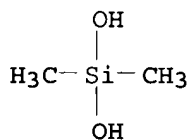
CM 1

CRN 158465-65-7  
CMF C4 H13 N O2 Si



CM 2

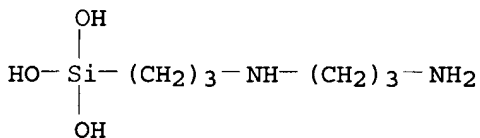
CRN 1066-42-8  
CMF C2 H8 O2 Si



RN 228091-05-2 HCAPLUS  
CN Silanetriol, [3-[(3-aminopropyl)amino]propyl]-, polymer with  
dimethylsilanediol (9CI) (CA INDEX NAME)

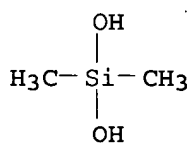
CM 1

CRN 228091-04-1  
CMF C6 H18 N2 O3 Si



CM 2

CRN 1066-42-8  
CMF C2 H8 O2 Si



L34 ANSWER 56 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN  
 AN 1998:682266 HCAPLUS  
 DN 129:293675  
 TI Hair compositions containing a cationic polymer with low molecular mass and a silicone  
 IN Decoster, Sandrine; Beauquey, Bernard  
 PA L'oreal, Fr.  
 SO PCT Int. Appl., 38 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA French  
 FAN.CNT 3

|      | PATENT NO.    | KIND | DATE     | APPLICATION NO.  | DATE     |
|------|---------------|------|----------|--|----------|
| PI   | WO 9844897    | A1   | 19981015 | WO 1998-FR670  | 19980402 |
|      | W:            |      |          | AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM |          |
|      | RW:           |      |          | GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG   |          |
|      | FR 2761599    | A1   | 19981009 | FR 1997-4221   | 19970407 |
|      | FR 2761599    | B1   | 19991203 |  |          |
|      | CA 2285653    | AA   | 19981015 | CA 1998-2285653  | 19980402 |
|      | AU 9870548    | A1   | 19981030 | AU 1998-70548  | 19980402 |
|      | AU 721152     | B2   | 20000622 |  |          |
|      | EP 973486     | A1   | 20000126 | EP 1998-917296   | 19980402 |
|      | EP 973486     | B1   | 20030129 |  |          |
|      | R:            |      |          | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI   |          |
|      | BR 9808117    | A    | 20000308 | BR 1998-8117   | 19980402 |
|      | JP 2000510480 | T2   | 20000815 | JP 1998-542446   | 19980402 |
|      | RU 2183953    | C2   | 20020627 | RU 1999-123439   | 19980402 |
|      | AT 231716     | E    | 20030215 | AT 1998-917296   | 19980402 |
|      | PT 973486     | T    | 20030630 | PT 1998-917296   | 19980402 |
|      | ES 2191932    | T3   | 20030916 | ES 1998-917296   | 19980402 |
|      | US 6162424    | A    | 20001219 | US 1998-55760  | 19980407 |
|      | MX 9909068    | A    | 20000228 | MX 1999-9068   | 19991004 |
| PRAI | FR 1997-4221  | A    | 19970407 |  |          |
|      | WO 1998-FR670 | W    | 19980402 |  |          |

AB Novel hair compns. comprising in a cosmetically acceptable medium at least a silicon and at least a polymer containing diallyl di-Me ammonium units with low mean mol. mass by weight (5000 < M < 20000) are disclosed. The keratin materials treated with these compns. are not heavy or greasy to the touch. A shampoo contained ethoxylated sodium laurylether sulfate 15.5, disodium cocamphodiacetate (Mirnaol C2M) 2.56, aminosilicones (Fluid DC 939) 1.05, polydimethylsiloxane (Fluid DC 200-60,000 cSt.) 2, diallyl di-Me ammonium homopolymer 0.6, ethylene glycol distearate 1.5, crosslinked polyacrylic acid 0.2, copra acid monoisopropanolamide 0.99 citric acid q.s. pH = 5,

and water q.s. 100 g.

IC ICM A61K007-06  
ICS A61K007-48

CC 62-3 (Essential Oils and Cosmetics)

IT **Polysiloxanes**, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
((**aminoethyl**)**amino**]propyl hydroxy, di-Me; hair  
compns. containing cationic polymer with low mol. mass and silicone)

IT **Polysiloxanes**, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(**amino**; hair compns. containing cationic polymer with low mol.  
mass and silicone)

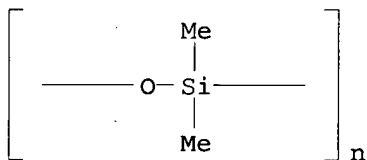
IT **Hair preparations**  
(**dyes**; hair compns. containing cationic polymer with  
low mol. mass and silicone)

IT 9004-82-4D, Sodium laurylether sulfate, ethoxylated 9016-00-6,  
Poly[oxy(dimethylsilylene)] 26062-79-3, Diallyl dimethyl  
ammonium chloride homopolymer 203341-07-5, Fluid DC 939)  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(hair compns. containing cationic polymer with low mol. mass and  
silicone)

IT 9016-00-6, Poly[oxy(dimethylsilylene)] 26062-79-3,  
Diallyl dimethyl ammonium chloride homopolymer  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(hair compns. containing cationic polymer with low mol. mass and  
silicone)

RN 9016-00-6 HCAPLUS

CN Poly[oxy(dimethylsilylene)] (8CI, 9CI) (CA INDEX NAME)



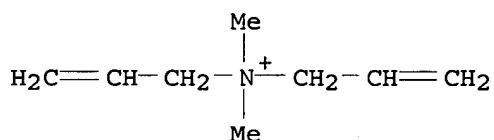
RN 26062-79-3 HCAPLUS

CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer  
(9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

CMF C8 H16 N . Cl

● Cl<sup>-</sup>

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L34 ANSWER 57 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1998:635635 HCAPLUS

DN 129:280773

TI Oxidative hair dye compositions containing 2-hydroxyphenyl  
benzotriazole derivatives and surfactants

IN Hawkins, Geoffrey R.; Dolak, Terence M.; Gutkowski, Glenn A.

PA Revlon Consumer Products Corp., USA

SO PCT Int. Appl., 49 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO.  | DATE     |
|------|---|------|----------|------------------|----------|
| PI   | WO 9841186  | A1   | 19980924 | WO 1998-US5207   | 19980317 |
|      | W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, GH, GW, HU, ID, IL, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM |      |          |                  |          |
|      | RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG  |      |          |                  |          |
|      | US 5843193  | A    | 19981201 | US 1997-819809   | 19970318 |
|      | CA 2255715  | AA   | 19980924 | CA 1998-2255715  | 19980317 |
|      | AU 9865613  | A1   | 19981012 | AU 1998-65613    | 19980317 |
|      | AU 725070   | B2   | 20001005 |                  |          |
|      | EP 910330   | A1   | 19990428 | EP 1998-911725   | 19980317 |
|      | EP 910330   | B1   | 20031022 |                  |          |
|      | R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE, IE, FI   |      |          |                  |          |
|      | BR 9804784  | A    | 19990817 | BR 1998-4784     | 19980317 |
|      | NZ 332989   | A    | 20000327 | NZ 1998-332989   | 19980317 |
|      | JP 2001505923   | T2   | 20010508 | JP 1998-540717   | 19980317 |
|      | AT 252361   | E    | 20031115 | AT 1998-911725   | 19980317 |
|      | ES 2206904  | T3   | 20040516 | ES 1998-911725   | 19980317 |
|      | ZA 9802287  | A    | 19980923 | ZA 1998-2287     | 19980318 |
|      | TW 513313   | B    | 20021211 | TW 1998-87104020 | 19980318 |
|      | NO 9805354  | A    | 19990118 | NO 1998-5354     | 19981117 |
|      | KR 2000011141   | A    | 20000225 | KR 1998-709301   | 19981118 |
| PRAI | US 1997-819809  | A    | 19970318 |                  |          |
|      | WO 1998-US5207  | W    | 19980317 |                  |          |

OS MARPAT 129:280773

AB A composition for oxidative dyeing of hair comprises, by weight of the total composition; 0.0001-20 % of at least one primary intermediate and at least one coupler for the formation of oxidation dyes, 0.01-10 % of a 2-hydroxyphenyl benzotriazole compound which absorbs UV radiation in the

wavelength range of 200 to 400 nm, 0.5-20 % surfactant, and 10-65 % water. A two component kit containing the hair dye composition and a developer, and a method for oxidative dyeing of hair with said kit is also disclosed. A hair dye composition contained ammonium lauryl sulfate 2.00, propylene glycol 4.00, ethoxydiglycol 2.00, monoethanolamine 5.00, seaweed extract 0.80, EDTA 0.80, isoascorbic acid 0.20, sodium sulfite 0.50, primary intermediates and couplers 5.00, oleic acid 12.50, cetearyl alc. 4.00, emulsifying wax 2.00, oleth-20 1.00, steareth-21 0.70, meadowfoam seed oil 0.75, oleyl alc. 0.40, Polyquaternium-10 0.20, Polyquaternium-28 0.50, mica/titanium dioxide 0.30, hydrolyzed wheat protein 1.00, Cibafast W liquid 1.00, fragrance 5.00, wheat amino acids 1.00, and water q.s. 100%.

- IC ICM A61K007-06
- ICS A61K007-13; A61K007-42
- CC 62-4 (Essential Oils and Cosmetics)
- ST oxidative hair dye benzotriazole deriv surfactant
- IT Alcohols, biological studies
  - RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
  - (C16-18, ethoxylated; oxidative hair dye compns. containing hydroxyphenyl benzotriazole derivs. and surfactants)
- IT Alcohols, biological studies
  - RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
  - (C16-18; oxidative hair dye compns. containing hydroxyphenyl benzotriazole derivs. and surfactants)
- IT Fats and Glyceridic oils, biological studies
  - RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
  - (Limnanthes alba seed; oxidative hair dye compns. containing hydroxyphenyl benzotriazole derivs. and surfactants)
- IT Surfactants
  - (amphoteric; oxidative hair dye compns. containing hydroxyphenyl benzotriazole derivs. and surfactants)
- IT Hair preparations
  - (conditioners; oxidative hair dye compns. containing hydroxyphenyl benzotriazole derivs. and surfactants)
- IT Cyclosiloxanes
  - RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
  - (di-Me; oxidative hair dye compns. containing hydroxyphenyl benzotriazole derivs. and surfactants)
- IT Hair preparations
  - (dyes, oxidative; oxidative hair dye compns. containing hydroxyphenyl benzotriazole derivs. and surfactants)
- IT Surfactants
  - (nonionic; oxidative hair dye compns. containing hydroxyphenyl benzotriazole derivs. and surfactants)
- IT Surfactants
  - (oxidative hair dye compns. containing hydroxyphenyl benzotriazole derivs. and surfactants)
- IT Polysiloxanes, biological studies
  - Quaternary ammonium compounds, biological studies
  - RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
  - (oxidative hair dye compns. containing hydroxyphenyl benzotriazole derivs. and surfactants)
- IT Surfactants
  - (zwitterionic; oxidative hair dye compns. containing hydroxyphenyl benzotriazole derivs. and surfactants)
- IT 2235-54-3, Ammonium lauryl sulfate 7722-84-1, Hydrogen peroxide,



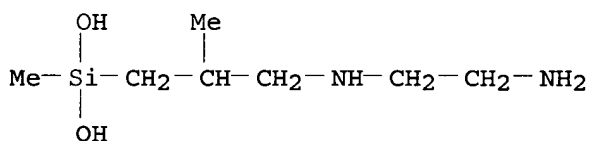
biological studies 9003-39-8, Poly(vinylpyrrolidone) 9004-34-6D,  
Cellulose, ethers, biological studies 9004-98-2, Oleth-20 25751-21-7,  
Acrylic acid-methacrylic acid copolymer 26062-79-3,  
Poly(dimethyldiallylammonium chloride) 26590-05-6, Acrylamide-  
dimethyldiallylammonium chloride copolymer 56275-01-5 81859-24-7,  
Polyquaternium-10 92484-48-5, Cibafast W 131954-48-8,  
Polyquaternium-28 157956-72-4D, trimethylsilyl-terminated  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)

(oxidative hair dye compns. containing hydroxyphenyl  
benzotriazole derivs. and surfactants)  
IT 157956-72-4D, trimethylsilyl-terminated  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)

(oxidative hair dye compns. containing hydroxyphenyl  
benzotriazole derivs. and surfactants)  
RN 157956-72-4 HCAPLUS  
CN Silanediol, [3-[(2-aminoethyl)amino]-2-methylpropyl]methyl-, polymer with  
dimethylsilanediol (9CI) (CA INDEX NAME)

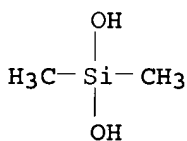
CM 1

CRN 157956-71-3  
CMF C7 H20 N2 O2 Si



CM 2

CRN 1066-42-8  
CMF C2 H8 O2 Si

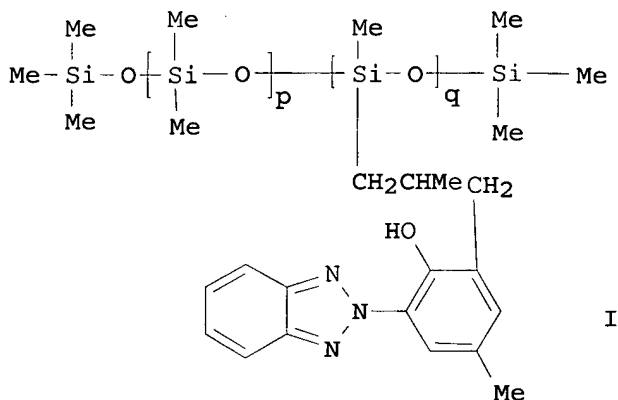


RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L34 ANSWER 58 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN  
AN 1998:293738 HCAPLUS  
DN 129:45108  
TI Cosmetic compositions containing silicones and their use for prevention of  
discoloration of dyed keratin fibers caused by UV irradiation  
IN Richard, Herve; Lagrange, Alain; Dubief, Claude; Braida-Valerio, Damarys  
PA L'Oreal S. A., Fr.  
SO Jpn. Kokai Tokkyo Koho, 14 pp.  
CODEN: JKXXAF  
DT Patent

LA Japanese  
FAN.CNT 1

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|------|---|------|----------|-----------------|----------|
|      | -----   | ---- | -----    | -----           | -----    |
| PI   | JP 10120536   | A2   | 19980512 | JP 1997-280934  | 19971014 |
|      | FR 2754446  | A1   | 19980417 | FR 1996-12564   | 19961015 |
|      | FR 2754446  | B1   | 20041015 |                 |          |
|      | EP 842965   | A1   | 19980520 | EP 1997-402346  | 19971006 |
|      | EP 842965   | B1   | 20010103 |                 |          |
|      | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI |      |          |                 |          |
|      | AT 198485   | E    | 20010115 | AT 1997-402346  | 19971006 |
|      | ES 2155244  | T3   | 20010501 | ES 1997-402346  | 19971006 |
|      | PT 842965   | T    | 20010531 | PT 1997-402346  | 19971006 |
|      | CA 2216950  | AA   | 19980415 | CA 1997-2216950 | 19971014 |
|      | CA 2216950  | C    | 20040727 |                 |          |
|      | JP 2000103725   | A2   | 20000411 | JP 1999-314434  | 19971014 |
|      | BR 9705279  | A    | 19991207 | BR 1997-5279    | 19971015 |
|      | US 6635264  | B1   | 20031021 | US 2000-698086  | 20001030 |
|      | GR 3035555  | T3   | 20010629 | GR 2001-400396  | 20010309 |
| PRAI | FR 1996-12564   | A    | 19961015 |                 |          |
|      | JP 1997-280934  | A3   | 19971014 |                 |          |
|      | US 1997-951048  | A1   | 19971015 |                 |          |
| GI   |   |      |          |                 |          |



AB Title compns. contain organosiloxanes having UV-absorbing group. A conditioner was prepared from benzotriazole-containing siloxane I (p = 0-10, q = 1-10) 1, DC 245 [cyclopentadimethylsiloxane (II)] 15, DC 244 (II) 15, Q 2 1401 ( $\alpha,\omega$ -dihydroxylated di-Me siloxane) 20, EtOH 5, and H<sub>2</sub>O to 100 g. An EtOH solution of I prevented discoloration of dyed hair exposed to light.

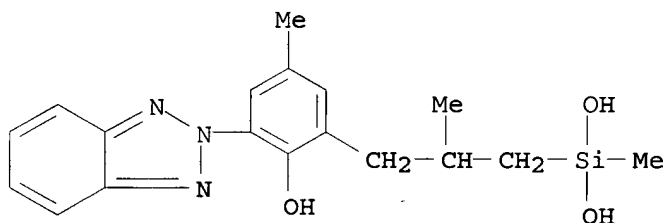
IC ICM A61K007-06  
ICS A61K007-44; C08G077-14; C08G077-26; C08L083-08

CC 62-3 (Essential Oils and Cosmetics)

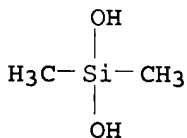
ST hair cosmetic UV absorbing silicone; dyed hair discoloration prevention silicone; benzotriazole siloxane hair UV protection

IT Polysiloxanes, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(Me, benzalmalonate-containing; cosmetics containing UV-absorbing silicones for

dyed hair discoloration prevention)  
IT Polysiloxanes, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(Me, benzotriazole-containing; cosmetics containing UV-absorbing silicones for  
dyed hair discoloration prevention)  
IT Cosmetics  
Discoloration prevention agents  
Hair preparations  
UV stabilizers  
(cosmetics containing UV-absorbing silicones for dyed hair  
discoloration prevention)  
IT 177955-90-7D, benzalmalonate group-terminated 208391-13-3D,  
trimethylsilyl-terminated 208391-15-5D, benzalmalonate group-terminated  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(cosmetics containing UV-absorbing silicones for dyed  
hair discoloration prevention)  
IT 208391-13-3D, trimethylsilyl-terminated  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(cosmetics containing UV-absorbing silicones for dyed  
hair discoloration prevention)  
RN 208391-13-3 HCAPLUS  
CN Silanediol, [3-[3-(2H-benzotriazol-2-yl)-2-hydroxy-5-methylphenyl]-2-  
methylpropyl]methyl-, polymer with dimethylsilanediol (9CI) (CA INDEX  
NAME)  
CM 1  
CRN 201028-87-7  
CMF C18 H23 N3 O3 Si



CM 2  
CRN 1066-42-8  
CMF C2 H8 O2 Si



AN 1997:731394 HCAPLUS  
 DN 127:362462  
 TI Preparations of silicone emulsions and their use in manufacturing water- and oil-resistant and film-forming cosmetics  
 IN Matsumoto, Makoto  
 PA Toshiba Silicone Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 33 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE     |
|------|----------------|------|----------|-----------------|----------|
| PI   | JP 09278626    | A2   | 19971028 | JP 1996-205774  | 19960805 |
|      | JP 3335842     | B2   | 20021021 |                 |          |
| PRAI | JP 1995-200816 | A    | 19950807 |                 |          |
|      | JP 1996-27776  | A    | 19960215 |                 |          |

AB Silicone emulsions prepared by emulsification polymerization of low mol.-weight organosiloxanes in water in the presence of anionic or cationic surfactants and catalysts to give emulsions containing OH group-terminated organosiloxanes having viscosity of 500,000-50,000,000 cP at 25° and their use in manufacturing water- and oil-resistant and film-forming cosmetics are claimed. A hair treatment preparation contained CM-cellulose 0.5, glycerin 34.2, triethanolamine 2.3, the silicone emulsion 2.0, and water 61.0 parts.

IC ICM A61K007-00  
 ICS A61K007-00; A61K007-02; A61K007-06; A61K007-075; A61K007-08; A61K007-09; A61K007-11; A61K007-13; A61K007-48; A61K007-50; B01J013-00; C08L083-06

CC 62-3 (Essential Oils and Cosmetics)  
 Section cross-reference(s): 38

IT Hair preparations  
 (dyes; preps. of silicone emulsions and their use in manufacturing water- and oil-resistant and film-forming cosmetics)

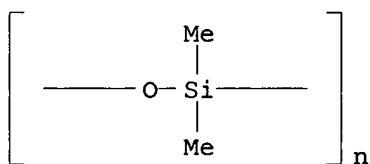
IT 9016-00-6DP, Polydimethylsiloxane, OH group-terminated  
 RL: BUU (Biological use, unclassified); PNU (Preparation, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (emulsions; preps. of silicone emulsions and their use in manufacturing water- and oil-resistant and film-forming cosmetics)

IT 31900-57-9DP, Polydimethylsiloxane, OH group-terminated  
 RL: BUU (Biological use, unclassified); PNU (Preparation, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preps. of silicone emulsions and their use in manufacturing water- and oil-resistant and film-forming cosmetics)

IT 78-10-4 556-67-2 1185-55-3 3663-44-3, 3-  
**Aminopropylmethyldimethoxysilane** 16881-77-9D,  
 Methyldimethoxysilane, p-Vinylpheny 65799-47-5, 3-  
 Glycidoxypropylmethyldimethoxysilane  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (preps. of silicone emulsions and their use in manufacturing water- and oil-resistant and film-forming cosmetics)

IT 9016-00-6DP, Polydimethylsiloxane, OH group-terminated  
 RL: BUU (Biological use, unclassified); PNU (Preparation, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (emulsions; preps. of silicone emulsions and their use in manufacturing water- and oil-resistant and film-forming cosmetics)

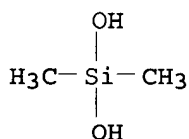
RN 9016-00-6 HCAPLUS  
 CN Poly[oxy(dimethylsilylene)] (8CI, 9CI) (CA INDEX NAME)



IT 31900-57-9DP, Polydimethylsiloxane, OH group-terminated  
 RL: BUU (Biological use, unclassified); PNU (Preparation, unclassified);  
 BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (prepns. of silicone emulsions and their use in manufacturing water- and  
 oil-resistant and film-forming cosmetics)  
 RN 31900-57-9 HCAPLUS  
 CN Silanediol, dimethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 1066-42-8  
 CMF C2 H8 O2 Si



L34 ANSWER 60 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN  
 AN 1997:500039 HCAPLUS  
 DN 127:126338  
 TI Hair preparations  
 IN Ando, Eiji; Suzuki, Kenichi  
 PA Nippon Unicar Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 17 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

|      | PATENT NO.     | KIND | DATE            | APPLICATION NO. | DATE     |
|------|----------------|------|-----------------|-----------------|----------|
| PI   | JP 09151119    | A2   | <u>19970610</u> | JP 1996-156326  | 19960529 |
| PRAI | JP 1995-275035 | A    | <u>19950929</u> |                 |          |

AB Hair prepns. [shampoos, rinses, hair-setting lotions, sprays, permanent wave-setting agents, mousses, hair **dyes**] showing good foaming, emulsifying and hair-setting properties comprise specified reactive silicone block copolymers [markush given]. A shampoo contained Na C14- $\alpha$ -olefinsulfonate 15.0, glycerin monostearate 5.0, the silicone block copolymer 1.0, octamethylcyclopentasiloxane 8.0, PEG distearate 0.5, Na benzoate 1.0, yellow color number 203 0.01, perfumes, citric acid and purified water to 100%.

IC ICM A61K007-06  
 ICS C08G077-46; C08L083-06

CC 62-3 (Essential Oils and **Cosmetics**)  
 Section cross-reference(s): 38

IT Hair preparations  
 (**dyes**; hair prepns. containing reactive silicone block copolymers)

IT 156549-36-9 167370-67-4D, trimethylsilyl-terminated 192642-34-5  
 192642-35-6 192642-36-7 192642-37-8 192642-38-9  
 192642-40-3 192642-41-4  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (hair preps. containing reactive silicone block copolymers)

IT 192642-34-5 192642-35-6 192642-38-9  
 192642-40-3 192642-41-4  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (hair preps. containing reactive silicone block copolymers)

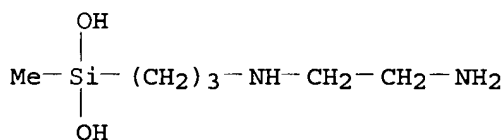
RN 192642-34-5 HCAPLUS

CN Silanediol, [3-[(2-aminoethyl)amino]propyl]methyl-, polymer with  
 dimethylsilanol,  $\alpha$ -hydro- $\omega$ -hydroxypoly[oxy(methyl-1,2-  
 ethanediyl)] and  $\alpha$ -(2-methyl-2-propenyl)- $\omega$ -hydroxypoly(oxy-1,2-  
 ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 83145-66-8

CMF C6 H18 N2 O2 Si

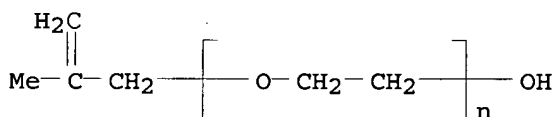


CM 2

CRN 31497-33-3

CMF (C2 H4 O)<sub>n</sub> C4 H8 O

CCI PMS

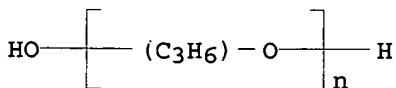


CM 3

CRN 25322-69-4

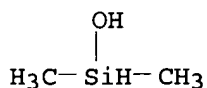
CMF (C3 H6 O)<sub>n</sub> H2 O

CCI IDS, PMS



CM 4

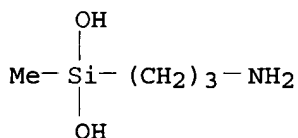
CRN 5906-76-3  
CMF C2 H8 O Si



RN 192642-35-6 HCAPLUS  
CN Silanediol, (3-aminopropyl)methyl-, polymer with dimethylsilanol,  
 $\alpha$ -hydro- $\omega$ -hydroxypoly[oxy(methyl-1,2-ethanediyl)] and  
 $\alpha$ -(2-methyl-2-propenyl)- $\omega$ -hydroxypoly(oxy-1,2-ethanediyl)  
(9CI) (CA INDEX NAME)

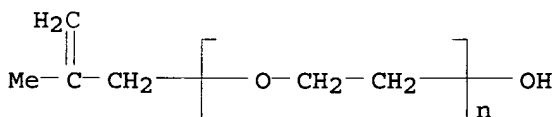
CM 1

CRN 158465-65-7  
CMF C4 H13 N O2 Si



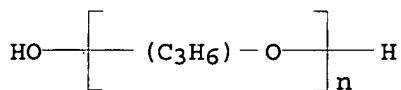
CM 2

CRN 31497-33-3  
CMF (C2 H4 O)<sub>n</sub> C4 H8 O  
CCI PMS



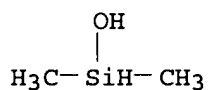
CM 3

CRN 25322-69-4  
CMF (C3 H6 O)<sub>n</sub> H2 O  
CCI IDS, PMS



CM 4

CRN 5906-76-3  
CMF C2 H8 O Si

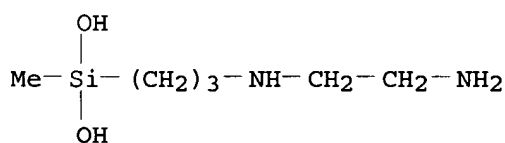


RN 192642-38-9 HCAPLUS  
 CN Silanediol, [3-[(2-aminoethyl)amino]propyl]methyl-, polymer with trimethylsilanol (9CI) (CA INDEX NAME)

CM 1

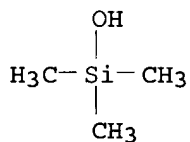
CRN 83145-66-8  
 CMF C6 H18 N2 O2 Si

X



CM 2

CRN 1066-40-6  
 CMF C3 H10 O Si

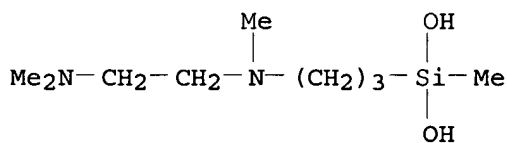


RN 192642-40-3 HCAPLUS  
 CN Silanediol, [3-[[2-(dimethylamino)ethyl]methylamino]propyl]methyl-, polymer with trimethylsilanol (9CI) (CA INDEX NAME)

CM 1

CRN 175842-30-5  
 CMF C9 H24 N2 O2 Si

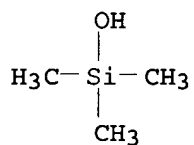
X



CM 2

CRN 1066-40-6  
 CMF C3 H10 O Si

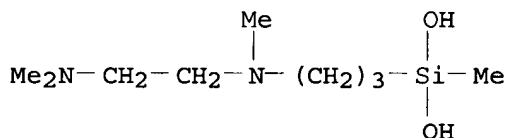




RN 192642-41-4 HCAPLUS  
 CN Silanediol, [3-[[2-(dimethylamino)ethyl]methylamino]propyl]methyl-, polymer with dimethylsilanol;  $\alpha$ -hydro- $\omega$ -hydroxypoly[oxy(methyl-1,2-ethanediyl)] and  $\alpha$ -(2-methyl-2-propenyl)- $\omega$ -hydroxypoly[oxy-1,2-ethanediyl] (9CI) (CA INDEX NAME)

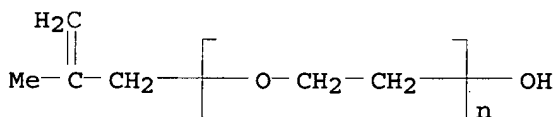
CM 1

CRN 175842-30-5  
 CMF C9 H24 N2 O2 Si



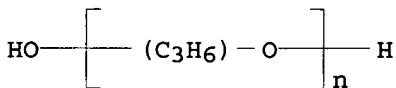
CM 2

CRN 31497-33-3  
 CMF (C2 H4 O)<sub>n</sub> C4 H8 O  
 CCI PMS



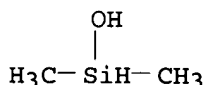
CM 3

CRN 25322-69-4  
 CMF (C3 H6 O)<sub>n</sub> H2 O  
 CCI IDS, PMS



CM 4

CRN 5906-76-3  
 CMF C2 H8 O Si



L34 ANSWER 61 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1997:388636 HCAPLUS

DN 127:39467

TI Hair **dye** compositions containing silicone-type block copolymers

IN Ando, Eiki; Suzuki, Kenichi

PA Nippon Unicar Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 13 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

|      | PATENT NO.     | KIND | DATE                | APPLICATION NO. | DATE     |
|------|----------------|------|---------------------|-----------------|----------|
| PI   | JP 09095428    | A2   | 19970408            | JP 1995-275036  | 19950929 |
| PRAI | JP 1995-275036 |      | <del>19950929</del> |                 |          |

AB Hair **dye** compns. contain 0.1-10 weight% silicone-type block copolymers in addition to other ingredients. A hair **dye** comprised: (A) a 1st reagent containing p-phenylenediamine 1.0, propylene glycol 10.0, Na EDTA 0.3, Na sulfite 0.5, perfumes 0.1, silicone-type block copolymers 1.0, POE stearate 1.0 and water to 100 weight% and (B) a 2nd reagent containing hydrogen peroxide 6.0 and water 94 weight%. The compns. showed excellent hair **dyeing** effects and gave good feels.

IC ICM A61K007-13

ICS C08L083-12

CC 62-3 (Essential Oils and Cosmetics)

Section cross-reference(s): 38

ST hair **dye** silicone block copolymer

IT Polymers, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(block, silicone-type; hair **dye** compns. containing silicone-type block copolymers)

IT Hair preparations

(**dyes**; hair **dye** compns. containing silicone-type block copolymers)

IT Polysiloxanes, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(hair **dye** compns. containing silicone-type block copolymers)

IT 156309-05-6 190201-14-0 190201-18-4

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(hair **dye** compns. containing silicone-type block copolymers)

IT 190201-18-4

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

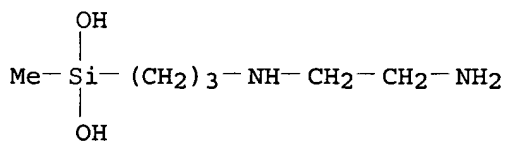
(hair **dye** compns. containing silicone-type block copolymers)

RN 190201-18-4 HCAPLUS

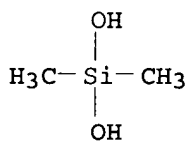
CN Silanediol, [3-[(2-aminoethyl)amino]propyl]methyl-, polymer with dimethylsilanediol, methyloxirane and oxirane, block (9CI) (CA INDEX

NAME)

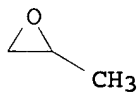
CM 1

CRN 83145-66-8  
CMF C6 H18 N2 O2 Si

CM 2

CRN 1066-42-8  
CMF C2 H8 O2 Si

CM 3

CRN 75-56-9  
CMF C3 H6 O

CM 4

CRN 75-21-8  
CMF C2 H4 O

L34 ANSWER 62 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN  
AN 1997:302832 HCAPLUS  
DN 126:282537  
TI Hair dye compositions  
IN Yusa, Sachiko  
PA Toshiba Silicone, Japan  
SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE     |
|------|----------------|------|----------|-----------------|----------|
| PI   | JP 09059136    | A2   | 19970304 | JP 1995-208159  | 19950815 |
| PRAI | JP 1995-208159 |      | 19950815 |                 |          |

AB **Hair dye** compns. are prepared by: (A) mixing **amino-modified polyorganosiloxanes** with surfactants, (B) mixing the premixt. with water, (C) mixing with addnl. water, and (D) adjusting to pH 4-10 to produce an microemulsion, which is mixed with **dyes** to give main component of a **hair dye** composition having excellent stability, **hair-dyeing** activity, and **hair-setting** effect. The **dye** adhered firmly to **hair** after application.

IC ICM A61K007-13

CC 62-3 (Essential Oils and **Cosmetics**)ST **hair dye** polyorganosiloxane surfactantIT **Dyes**

Surfactants

(amino-modified **polyorganosiloxanes** in **hair dye** compns.)IT **Polysiloxanes**, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(amino-modified **polyorganosiloxanes** in **hair dye** compns.)IT **Hair** preparations(dyes; amino-modified **polyorganosiloxanes** in **hair dye** compns.)

IT Emulsions

(microemulsions; amino-modified **polyorganosiloxanes** in **hair dye** compns.)IT 9002-92-0, Polyoxyethylene lauryl ether 9036-19-5, Polyoxyethylene octylphenyl ether **156623-21-1D**, TMS-terminated

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(amino-functional **polyorganosiloxanes** in **hair dye** compns.)IT **156623-21-1D**, TMS-terminated

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

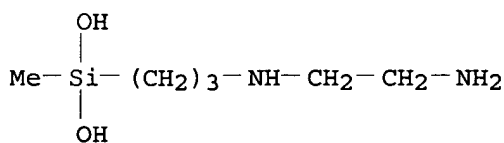
(amino-functional **polyorganosiloxanes** in **hair dye** compns.)RN **156623-21-1** HCAPLUS

CN Silanediol, [3-[(2-aminoethyl)amino]propyl]methyl-, polymer with dimethylsilanediol (9CI) (CA INDEX NAME)

CM 1

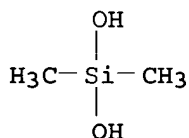
CRN 83145-66-8

CMF C6 H18 N2 O2 Si



CM 2

CRN 1066-42-8  
CMF C2 H8 O2 Si



L34 ANSWER 63 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1996:298126 HCAPLUS

DN 124:324984

TI acidic hair dyes containing sugar derivatives,  
silicones and acid dyes

IN Yasuda, Masaaki; Arai, Yasuhiro; Kato, Mikiko; Uehara, Keiichi; Okumura,  
Masakazu; Kusumoto, Takafumi

PA Shiseido Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 18 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE     |
|------|----------------|------|----------|-----------------|----------|
| PI   | JP 08040851    | A2   | 19960213 | JP 1994-197559  | 19940729 |
| PRAI | JP 1994-197559 |      | 19940729 |                 |          |

AB Acidic hair dyes contain sugar derivs. ( sugar  
branched aliphatic ethers and/or branched aliphatic glycosides: maltitol  
isostearyl ether and/or isostearyl glycosides), silicones, and acid dyes.  
An acidic hair dye comprised isopropanol 5.0,  
isostearyl maltoside 5.0, sodium hydrosulfite 0.5, L-ascorbic acid 0.5,  
EDTA 0.5, monoethanolamine 2.0, p-toluenediaminosulfate 1.0, resorcinol  
1.0, p-aminophenol 0.1, Silicone KF102 2.5, perfumes,  
and ion-exchanged water to 100 weight%. The hair dyes  
caused no damages to hair, were washing-resistant, and spread and dyed  
homogeneously.

IC ICM A61K007-13

CC 62-3 (Essential Oils and Cosmetics)

ST acidic hair dye sugar deriv; silicone acidic  
hair dye

IT Glycosides

Siloxanes and Silicones, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)

(acidic hair dyes containing sugar derivs., silicones  
and acid dyes)

- IT Carbohydrates and Sugars, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(derivs.; acidic **hair dyes** containing sugar derivs.,  
silicones and acid dyes)
- IT **Dyes**  
(acid, acidic **hair dyes** containing sugar derivs.,  
silicones and acid dyes)
- IT Epoxy resins, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(di-Me siloxane-, KF 102; acidic **hair dyes** containing  
sugar derivs., silicones and acid dyes)
- IT Siloxanes and Silicones, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(di-Me, Me 1-methyl-2-phenylethyl, KF 410; acidic **hair  
dyes** containing sugar derivs., silicones and acid dyes)
- IT Siloxanes and Silicones, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(di-Me, Me 3,3,3-trifluoropropyl, FS 1265; acidic **hair  
dyes** containing sugar derivs., silicones and acid dyes)
- IT Siloxanes and Silicones, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(di-Me, epoxy, KF 102; acidic **hair dyes** containing  
sugar derivs., silicones and acid dyes)
- IT Siloxanes and Silicones, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(di-Me, polyoxyethylene-, graft, SC 9450; acidic **hair  
dyes** containing sugar derivs., silicones and acid dyes)
- IT **Hair preparations**  
(**dyes**, acidic; acidic **hair dyes** containing  
sugar derivs., silicones and acid dyes)
- IT Siloxanes and Silicones, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(polyoxyalkylene-, graft, acidic **hair dyes** containing  
sugar derivs., silicones and acid dyes)
- IT Polyoxyalkylenes, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(siloxane-, graft, acidic **hair dyes** containing sugar  
derivs., silicones and acid dyes)
- IT 9005-12-3, KF 56  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(KF 56; acidic **hair dyes** containing sugar derivs.,  
silicones and acid dyes)
- IT 95-55-6, o-Aminophenol 99-56-9, p-Nitro-o-phenylenediamine 106-50-3,  
p-Phenylenediamine, biological studies 108-45-2, 1,3-Benzenediamine,  
biological studies 108-46-3, 1,3-Benzenediol, biological studies  
585-88-6D, Maltitol, isostearyl ether 591-27-5 2835-96-3,  
p-Amino-o-cresol 6369-59-1, p-Toluenediamine sulfate 9016-00-6  
, Polydimethylsiloxane 25322-68-3D, Polyethylene glycol, graft polymers  
with siloxanes 31230-04-3, Poly(methylphenylsilanediol)  
31900-57-9, Polydimethylsilanediol 142903-03-5 143711-48-2, SM  
8702C 176485-98-6

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(acidic hair dyes containing sugar derivs., silicones and acid dyes)

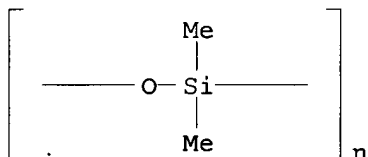
IT 9016-00-6, Polydimethylsiloxane 31900-57-9, Polydimethylsilanediol

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(acidic hair dyes containing sugar derivs., silicones and acid dyes)

RN 9016-00-6 HCAPLUS

CN Poly[oxy(dimethylsilylene)] (8CI, 9CI) (CA INDEX NAME)



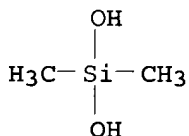
RN 31900-57-9 HCAPLUS

CN Silanediol, dimethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 1066-42-8

CMF C2 H8 O2 Si



L34 ANSWER 64 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1996:249613 HCAPLUS

DN 124:324953

TI Effects of silicone pretreatment on oxidative hair damage

AU Berthiaume, Marianne D.; Merrifield, James H.; Riccio, Donna A.

CS GE Silicones, Waterford, NY, 12188, USA

SO Journal of the Society of Cosmetic Chemists (1995), 46(5), 231-45

CODEN: JSCCA5; ISSN: 0037-9832

PB Society of Cosmetic Chemists

DT Journal

LA English

AB A high-viscosity, high-amine-content silicone fluid provides significant conditioning properties. Application of this material as a pretreatment provides protection against the damage caused by bleaching and oxidative dyeing as observed by SEM and combing force studies. This product does not interfere with the bleaching or oxidative dyeing processes when used as a pretreatment as shown by half head studies and thin-section light microscopy. Treatment of hair with the microemulsion also reduces color fading of temporary dyes through shampooing as shown by chromaticity tristimulus evaluations and thin-section light microscopy. In deposition expts., several silicones penetrate through the

cuticle and into the cortex of the hair fiber. This was demonstrated by scanning time-of-flight secondary ion mass spectroscopy (TOF-SIMS).

CC 62-3 (Essential Oils and Cosmetics)

IT Hair preparations

(dyes, silicone pretreatment effects on oxidative hair damage)

IT 156218-89-2D, trimethylsilyl terminated 156623-21-1D, trimethylsilyl terminated

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(silicone pretreatment effects on oxidative hair damage)

IT 156218-89-2D, trimethylsilyl terminated 156623-21-1D, trimethylsilyl terminated

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(silicone pretreatment effects on oxidative hair damage)

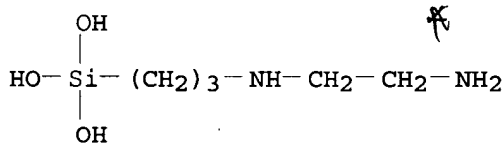
RN 156218-89-2 HCAPLUS

CN Silanetriol, [3-[(2-aminoethyl)amino]propyl]-, polymer with dimethylsilanediol (9CI) (CA INDEX NAME)

CM 1

CRN 68400-08-8

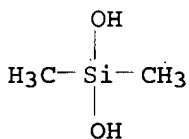
CMF C5 H16 N2 O3 Si



CM 2

CRN 1066-42-8

CMF C2 H8 O2 Si



RN 156623-21-1 HCAPLUS

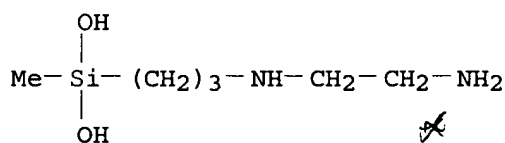
CN Silanediol, [3-[(2-aminoethyl)amino]propyl]methyl-, polymer with dimethylsilanediol (9CI) (CA INDEX NAME)

CM 1

CRN 83145-66-8

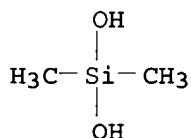
CMF C6 H18 N2 O2 Si





CM 2

CRN 1066-42-8  
CMF C2 H8 O2 Si



L34 ANSWER 65 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1995:767950 HCAPLUS

DN 123:179099

TI **Hair dye** compositions containing polyphenols, iron  
salts, and silicones

IN Yoshihara, Tooru; Ogawa, Masahiko; Horichi, Hiroko

PA Kao Corp, Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE     |
|------|----------------|------|----------|-----------------|----------|
| PI   | JP 07165542    | A2   | 19950627 | JP 1993-312065  | 19931213 |
| PRAI | JP 1993-312065 |      | 19931213 |                 |          |

AB The **hair dye** compns. contain (a)  $\geq 1$  selected  
from pyrogallol, tannic acids, gallic acid, their esters, and plant exts.  
containing polyphenols, (b) Fe salts, and (c) silicone oils. Aerosols of the  
compns. are prevented from degradation with air and uniformly spread over  
hair. The compns. are useful for gradually **dyeing** gray  
**hair** and changing tone of black hair. A **hair**  
**dye** containing Pr gallate, FeSO<sub>4</sub>, and SH 3771C (silicone-polyether  
copolymer) showed sufficient **dyeing** ability to goat **hair**

IC ICM A61K007-13

CC 62-3 (Essential Oils and Cosmetics)

ST **hair dye** polyphenol iron silicone

IT Saxifraga stolonifera

Tea (Camellia sinensis)

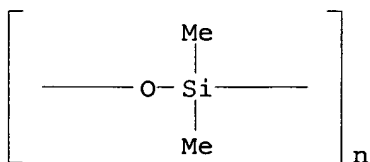
(exts.; **hair dye** compns. containing polyphenols, Fe  
salts, and silicone oil with good dyeing ability by repeated use in  
short time)

IT Siloxanes and Silicones, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)

(**hair dye** compns. containing polyphenols, Fe salts, and

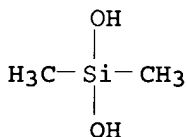
- silicone oil with good dyeing ability by repeated use in short time)
- IT Siloxanes and Silicones, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(aminoalkyl, SM 8702; hair dye compns.  
containing polyphenols, Fe salts, and silicone oil with good dyeing ability  
by repeated use in short time)
- IT Siloxanes and Silicones, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(di-Me, hair dye compns. containing polyphenols, Fe  
salts, and silicone oil with good dyeing ability by repeated use in  
short time)
- IT Hair preparations  
(dyes, hair dye compns. containing  
polyphenols, Fe salts, and silicone oil with good dyeing ability by  
repeated use in short time)
- IT Siloxanes and Silicones, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(polyether-, hair dye compns. containing polyphenols,  
Fe salts, and silicone oil with good dyeing ability by repeated use in  
short time)
- IT Phenols, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(polyhydric, hair dye compns. containing polyphenols,  
Fe salts, and silicone oil with good dyeing ability by repeated use in  
short time)
- IT Siloxanes and Silicones, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(polyoxyalkylene-, SH 3771C; hair dye compns.  
containing polyphenols, Fe salts, and silicone oil with good dyeing ability  
by repeated use in short time)
- IT Polyoxyalkylenes, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(siloxane-, SH 3771C; hair dye compns. containing  
polyphenols, Fe salts, and silicone oil with good dyeing ability by  
repeated use in short time)
- IT 87-66-1, Pyrogallol 121-79-9, Propyl gallate 149-91-7, Gallic acid,  
biological studies 7705-08-0, Ferric chloride, biological studies  
7720-78-7, Ferrous sulfate 7758-94-3, Ferrous chloride 9005-12-3,  
Poly[oxy(methylphenylsilylene)] 9016-00-6, Dimethyl siloxane  
31230-04-3, Methylphenylsilanediol homopolymer 31900-57-9,  
Dimethylsilanediol homopolymer  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(hair dye compns. containing polyphenols, Fe salts, and  
silicone oil with good dyeing ability by repeated use in short time)
- IT 9016-00-6, Dimethyl siloxane 31900-57-9,  
Dimethylsilanediol homopolymer  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(hair dye compns. containing polyphenols, Fe salts, and  
silicone oil with good dyeing ability by repeated use in short time)
- RN 9016-00-6 HCAPLUS  
CN Poly[oxy(dimethylsilylene)] (8CI, 9CI) (CA INDEX NAME)



RN 31900-57-9 HCAPLUS  
 CN Silanediol, dimethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 1066-42-8  
 CMF C2 H8 O2 Si



L34 ANSWER 66 OF 66 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1995:260015 HCAPLUS

DN 122:38519

TI **Hair dyes** containing glycolipids and siloxanes

IN Tagami, Hidetoshi; Yoshihara, Tooru; Tada, Kyotake; Furukawa, Hisashi

PA Kao Corp, Japan

SO Jpn. Kokai Tokkyo Koho, 13 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

|      | PATENT NO.    | KIND | DATE     | APPLICATION NO. | DATE     |
|------|---------------|------|----------|-----------------|----------|
| PI   | JP 06247833   | A2   | 19940906 | JP 1993-33499   | 19930223 |
| PRAI | JP 1993-33499 |      | 19930223 |                 |          |

AB **Dyeing** compns. for **keratin** fibers comprise (1) glycolipids or heteropolysaccharides and (2) siloxanes selected from the group consisting of di-Me **siloxanes**, Me Ph **siloxanes**, **amino-modified silicones**, fatty acid-modified siloxanes, alc.-modified silicones, fatty alc.-modified polysiloxanes, polyether-modified silicones, epoxy-modified silicones, F-modified silicones, cyclic silicones, and alkyl-modified silicones. The dyes provide long-lasting colors without damaging the hair. A **hair dye** was formulated containing p-phenylenediamine 1.0, resorcinol 1.0, oleic acid 10.0, oleic acid diethanolamide 8.0, oleyl alc. 2.0, polyoxyethylene octyldodecyl ether 10.0, ethanol 15.0, propylene glycol 10.0, polyether-modified silicone (KF353A) 1.0, glycolipid hydroxypropyl ether 1.0, ammonia q.s. to pH 10.0, and water to 100%.

IC ICM A61K007-13

CC 62-3 (Essential Oils and Cosmetics)

ST **hair dye** glycolipid siloxane

IT Siloxanes and Silicones, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

- (alkoxy-containing; **hair dyes** containing glycolipids and siloxanes)
- IT Cyclosiloxanes  
Glycolipids  
Polysaccharides, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
- (**hair dyes** containing glycolipids and siloxanes)
- IT Siloxanes and Silicones, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
- (Me Ph, **hair dyes** containing glycolipids and siloxanes)
- IT Siloxanes and **Silicones**, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
- (amino-containing, **hair dyes** containing glycolipids and siloxanes)
- IT Siloxanes and Silicones, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
- (di-Me, hydroxypropyl Me, alkoxyated, **hair dyes** containing glycolipids and siloxanes)
- IT Siloxanes and Silicones, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
- (di-Me, polyoxyethylene-, graft, **hair dyes** containing glycolipids and siloxanes)
- IT **Hair** preparations  
(**dyes**, **hair dyes** containing glycolipids and siloxanes)
- IT Siloxanes and Silicones, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
- (epoxy-containing, **hair dyes** containing glycolipids and siloxanes)
- IT Siloxanes and Silicones, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
- (fatty ester group-containing, **hair dyes** containing glycolipids and siloxanes)
- IT Siloxanes and Silicones, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
- (fluorine-containing, **hair dyes** containing glycolipids and siloxanes)
- IT Siloxanes and Silicones, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
- (hydroxy-containing, **hair dyes** containing glycolipids and siloxanes)
- IT Siloxanes and Silicones, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
- (polyether-, **hair dyes** containing glycolipids and siloxanes)
- IT Siloxanes and Silicones, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
- (polyoxyalkylene-, **hair dyes** containing glycolipids and siloxanes)

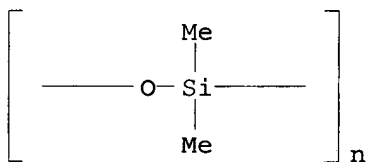
IT Fluoropolymers  
Polyoxyalkylenes, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(siloxane-, hair dyes containing glycolipids and  
siloxanes)

IT 9016-00-6, Dimethyl siloxane 42557-10-8, SH 200  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(hair dyes containing glycolipids and siloxanes)

IT 9016-00-6, Dimethyl siloxane  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(hair dyes containing glycolipids and siloxanes)

RN 9016-00-6 HCAPLUS

CN Poly[oxy(dimethylsilylene)] (8CI, 9CI) (CA INDEX NAME)



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